

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 8, 2004, 09:27:48 ; Search time 1574 Seconds
(without alignments)
9398.758 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363

Sequence: 1 atggttgtagtcacggggcgcg.....tagtcctagcagggtattag 363

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenBank:

1: gb.ba.*
2: gb.htg.*
3: gb.in.*
4: gb.om.*
5: gb.ov.*
6: gb.pat.*
7: gb.ph.*
8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.scg.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*
15: em.ba.*
16: em.fun.*
17: em.hum.*
18: em.in.*
19: em.mu.*
20: em.on.*
21: em.or.*
22: em.ov.*
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26: em.ro.*
27: em.sts.*
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38: em.sy.*
39: em.htgo.hum.*
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41: em.htgo.other.*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	363	100.0	363	6	AX575786	Sequence
2	363	100.0	680	6	AX575790	Sequence
3	316.8	87.3	1124	6	BD275557	MOLECULES
4	316.8	87.3	1211	9	BC042482	Homo sapi
5	316.8	87.3	2576	6	AX714361	Sequence
6	316.8	87.3	2576	9	AK056631	Homo sapi
7	315.2	86.8	4807	6	BD183414	Novel gen
8	221.8	61.1	135044	9	AC006001	Homo sapi
9	220.2	60.7	321	6	AX575788	Sequence
10	218.6	60.2	194464	2	AC146119	Sequence
11	203.8	56.1	246	6	AX887431	Sequence
12	203.8	56.1	246	6	BD027041	Sequence
13	194.2	50.7	3864	9	AB056802	Mataca fa
14	163	44.9	213729	2	AC116246	Rattus no
15	163	44.9	216180	2	AC119707	Rattus no
16	155	42.7	203685	10	AC122339	Mus muscu
17	145.2	40.0	4143	9	AK127790	Homo sapi
18	110.6	30.5	188908	5	AL935293	Zebrafish
19	106.4	29.3	188791	10	AC117185	Mus muscu
20	106.4	29.3	257003	10	AC122830	Mus muscu
21	65.8	18.1	96119	2	AC110531	Mus muscu
22	65.2	18.0	204095	2	EX649457	Danio rer
23	63.2	17.4	182334	2	EX005483	Danio rer
24	61.8	17.0	1568	9	BC062331	Homo sapi
25	61.8	17.0	3146	9	AK095233	Homo sapi
26	61.8	17.0	3343	6	AX230565	Sequence
27	61.8	17.0	33602	9	U73643	Human Chrom
28	61.8	17.0	131259	2	AP001805	Homo sapi
29	61.8	17.0	189412	2	AC023532	Homo sapi
30	61.8	17.0	205152	9	AP002985	Homo sapi
31	61.8	17.0	214701	2	AP001447	Homo sapi
32	59.8	16.5	194464	2	AC146119	Pan trogl
33	59.4	16.4	228774	2	AC123186	Rattus no
34	59.4	16.4	264204	2	AC125702	Rattus no
35	58.4	16.1	923358	9	AP003032	Homo sapi
36	58.4	16.1	144771	2	AC018610	Homo sapi
37	57.2	15.8	242	6	AX887690	Sequence
38	57.2	15.8	242	6	BD027300	Sequence
39	57.2	15.8	1718	6	AX179743	Sequence
40	57	15.7	1654	9	BC001062	Homo sapi
41	57	15.7	1654	9	BC001929	Homo sapi
42	57	15.7	1696	6	AX685169	Sequence
43	56.4	15.5	421	6	AX774711	Sequence
44	55.8	15.4	3096	10	BC006935	Mus muscu
45	54.2	14.9	96119	2	AC110531	Mus muscu

ALIGNMENTS

RESULT 1
AX575786
LOCUS AX575786
DEFINITION Sequence 4 from Patent WO02068626.
ACCESSION AX575786
VERSION AX575786.1 GI:27552274
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Friddle, C.J., Gerhardt, B., Hilbun, E. and Turner, C.A.
TITLE Novel human ion channel-related proteins and polynucleotides encoding the same

Pred. No. is the number of results predicted by chance to have a

JOURNAL Patent: WO 02068626-A 4 06-SEP-2002;
Lexicon Genetics Incorporated (US)

FEATURES

source
1..363
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 363; DB 6; Length 363;
Best Local Similarity 100.0%; Pred. No. 3.3e-72;
Matches 363; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGTGGTAGTCACGGGCGGAGCCAGACAGCCGTCGTTCAGGACGGTGCATGTCACG 60

DB 1 ATGGTGGTAGTCACGGGCGGAGCCAGACAGCCGTCGTTCAGGACGGTGCATGTCACG 60

QY 61 TCTGAGCCGAGACGACATTTCTGAGGCGGCGCACCGCCAGCGGCGGCGGCGCAC 120

DB 61 TCTGAGCCGAGACGACATTTCTGAGGCGGCGCACCGCCAGCGGCGGCGGCGCAC 120

QY 121 GCCTGCGCCCTGCTGCCACAGGAGTTCTCTGAGGTTGTTCCCTTAACTCGGAGGGGCT 180

DB 121 GCCTGCGCCCTGCTGCCACAGGAGTTCTCTGAGGTTGTTCCCTTAACTCGGAGGGGCT 180

QY 181 CACTTCACTACGCGCTGCTCCACACTCGGCTGCTACGACACACCATGTTGGCAGCCATG 240

DB 181 CACTTCACTACGCGCTGCTCCACACTCGGCTGCTACGACACACCATGTTGGCAGCCATG 240

QY 241 TTCAGTGGGCGGCACTACATCCCGACGACTCCGAGGCGCGGTACTTCATCGACCGAGAT 300

DB 241 TTCAGTGGGCGGCACTACATCCCGACGACTCCGAGGCGCGGTACTTCATCGACCGAGAT 300

QY 301 GGACACACTTTGGGTATGTTCTCCCTCTACATCACTTCTGAGTCTCTAGCAGGTGAT 360

DB 301 GGACACACTTTGGGTATGTTCTCCCTCTACATCACTTCTGAGTCTCTAGCAGGTGAT 360

QY 361 TAG 363

DB 361 TAG 363

RESULT 2

AX575790 680 bp DNA linear PAT 07-JAN-2003

LOCUS Sequence 8 from Patent WO02068626.

DEFINITION AX575790

ACCESSION AX575790

VERSION AX575790.1 GI:27552276

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 Friddle,C.J., Gerhardt,B., Hilbun,E. and Turner,C.A.

AUTHORS Novel human ion channel-related proteins and polynucleotides

TITLE encoding the same

JOURNAL Patent: WO 02068626-A 8 06-SEP-2002;

Lexicon Genetics Incorporated (US)

FEATURES source

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/organism="Homo sapiens"

/mol_type="unassigned DNA"

/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 363; DB 6; Length 680;

Best Local Similarity 100.0%; Pred. No. 3.1e-72;

Matches 363; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGTGGTAGTCACGGGCGGAGCCAGACAGCCGTCGTTCAGGACGGTGCATGTCACG 60

DB 198 ATGGTGGTAGTCACGGGCGGAGCCAGACAGCCGTCGTTCAGGACGGTGCATGTCACG 257

QY 61 TCTGAGCCGAGACGACATTTCTGAGGCGGCGCACCGCCAGCGGCGGCGGCGCAC 120

DB 258 TCTGAGCCGAGACGACATTTCTGAGGCGGCGCACCGCCAGCGGCGGCGGCGCAC 317

QY 121 GGCCTGCGCCCTGCTGCCACAGGAGTTCTCTGAGGTTGTTCCCTTAACTCGGAGGGGCT 180

DB 318 GGCCTGCGCCCTGCTGCCACAGGAGTTCTCTGAGGTTGTTCCCTTAACTCGGAGGGGCT 377

QY 181 CACTTCACTACAGCGCTGCTCCACACTCGGCTGCTACGACACACCATGTTGGCAGCCATG 240

DB 378 CACTTCACTACAGCGCTGCTCCACACTCGGCTGCTACGACACACCATGTTGGCAGCCATG 437

QY 241 TTCAGTGGGCGGCACTACATCCCGACGACTCCGAGGCGCGGTACTTCATCGACCGAGAT 300

DB 438 TTCAGTGGGCGGCACTACATCCCGACGACTCCGAGGCGCGGTACTTCATCGACCGAGAT 497

QY 301 GGACACACTTTGGGTATGTTCTCCCTCTACATCACTTCTGAGTCTCTAGCAGGTGAT 360

DB 498 GGACACACTTTGGGTATGTTCTCCCTCTACATCACTTCTGAGTCTCTAGCAGGTGAT 557

QY 361 TAG 363

DB 558 TAG 560

RESULT 3

BD275557 1124 bp DNA linear PAT 17-JUL-2003

LOCUS MOLECULES OF THE IMMUNE SYSTEM.

DEFINITION BD275557

ACCESSION BD275557

VERSION BD275557.1 GI:33085325

KEYWORDS JP 2002540791-A/2.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Lu,D.A.M., Azimzal,Y., Baughn,M.R., Tang,T.Y., Lal,P. and Yue,H.

TITLE MOLECULES OF THE IMMUNE SYSTEM

JOURNAL Patent: JP 2002540791-A 2 03-DEC-2002;

INCYTE PHARMACEUTICALS INC, Henry YUE, Preeti LAL, Tom Y TANG, Mariah

R BAUGHN, Yalda AZIMZAI, Dyung Aina M LU

COMMENT OS Homo sapiens

PN JP 2002540791-A/2

PD 03-DEC-2002

PF 04-APR-2000 JP 2000609571

PR 05-MAY-1999 US 60/132647,05-APR-1999 US 60/127852 PI

dyung yue, yalda azimzal, mariah l baughn, tom y tang, pi

preeti lal, yue

PI Henry yue

CC This description about <220> can't be interpreted CC <220>

CC <221> misc_feature

CC <223> Incyte ID No.: 2751129CB1

PH Key Location/Qualifiers.

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/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

FEATURES source

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Query Match 87.3%; Score 316.8; DB 6; Length 1124;

Best Local Similarity 99.4%; Pred. No. 9e-62;

Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGTGGTAGTCACGGGCGGAGCCAGACAGCCGTCGTTCAGGACGGTGCATGTCACG 60

DB 28 ATGGTGGTAGTCACGGGCGGAGCCAGACAGCCGTCGTTCAGGACGGTGCATGTCACG 87

QY 61 TCTGAGCCGAGACGACATTTCTGAGGCGGCGCACCGCCAGCGGCGGCGGCGCAC 120

DB 88 TCTGAGCCGAGACGACATTTCTGAGGCGGCGCACCGCCAGCGGCGGCGGCGCAC 147

QY 121 CGCGTCCGCCCTGCTGCCACAGAGTTTCTGAGGTGTTCCTCCCTTAACATCGAGGGGCT 180
 Db 148 CGCGTCCGCCCTGCTGCCACAGAGTTTCTGAGGTGTTCCTCCCTTAACATCGAGGGGCT 207
 QY 181 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACACAGTTGGCGAGCCATG 240
 Db 208 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACACAGTTGGCGAGCCATG 267
 QY 241 TTCAGTGGCGGCACTACATCCACGACACTCCGAGGCGCGGTACTTTCATCGACCGAGAT 300
 Db 268 TTCAGTGGCGGCACTACATCCACGACACTCCGAGGCGCGGTACTTTCATCGACCGAGAT 327
 QY 301 GGCACACACTTTGGGTATGT 320
 Db 328 GGCACACACTTTGGGTATGT 347

RESULT 4
 BC042482 1211 bp mRNA linear PRI 04-NOV-2003
 LOCUS Homo sapiens potassium channel tetramerisation domain containing 7,
 DEFINITION mRNA (cdna clone MGC:34731 IMAGE:5165722), complete cds.
 ACCESSION BC042482.1 GI:27503737
 VERSION MGC.
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mamalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 1211)

REFERENCE
 AUTHORS Strausberg, R.L., Feingold, B.A., Grouse, L.H., Derge, J.G.,
 Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
 Alechul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
 Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heide, P.,
 Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
 Stapleton, M., Soares, M.B., Bonaldo, M.P., Casavant, T.L.,
 Scheet, T.E., Brownstein, M.J., Usdin, T.B., Toehiyuki, S.,
 Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
 Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
 McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
 Wooley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
 Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
 Fahey, J., Helton, E., Kettman, M., Madan, A., Rodriguez, S.,
 Sanchez, A., Whitting, M., Madan, A., Young, A.C., Shcherchenko, Y.,
 Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
 Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
 Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalios, D.E.,
 Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

TITLE
 JOURNAL
 MEDLINE
 PUBMED
 REFERENCE
 AUTHORS Strausberg, R.
 TITLE Direct Submission
 JOURNAL Submitted (02-JAN-2003) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA

REMARK
 COMMENT NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 Contact: MGC help desk
 Email: cgabs-r@mail.nih.gov
 Tissue Procurement: Life Technologies, Inc.
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Baylor College of Medicine Human Genome
 Sequencing Center
 Center code: BCM-HGSC
 Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
 Contact: angbcm.tmc.edu
 Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H.,

Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
 A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAK Plate: 52 Row: 1 Column: 6
 This clone was selected for full length sequencing because it
 passed the following selection criteria: Hexamer frequency ORF
 analysis, GenomScan gene prediction.

FEATURES

Location/Qualifiers
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 /clone="MGC:34731 IMAGE:5165722"
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 PYYKHLEIVETLARFAVOKARFAKLVCFKEEMPTPYECPLANSRFFSESD
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 279..536

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 The N-terminal, cytoplasmic tetramerisation domain (T1) of
 voltage-gated K+ channels encodes molecular determinants
 for subfamily-specific assembly of alpha-subunits into
 functional tetrameric channels. It is distantly related to
 the BTB/POZ domain pfam00651"
 /db_xref="CDD:pfam02214"

ORIGIN

Query Match 87.3%; Score 316.8; DB 9; Length 1211;
 Best Local Similarity 99.4%; Pred. No. 8.9e-62;
 Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGCTGTGTAGTCACGGGGCGGAGCCAGACAGCGCTGTCAGGACGGTGCATGTCAGC 60
 Db 123 ATGCTGTGTAGTCACGGGGCGGAGCCAGACAGCGCTGTCAGGACGGTGCATGTCAGC 182
 QY 61 TCTGACGCGGAGACGACTTCTGAGCGCGCCACGCGGCGCCAGCGGGCGGCGAC 120
 Db 183 TCTGACGCGGAGACGACTTCTGAGCGCGCCACGCGGCGCCAGCGGGCGGCGAC 242
 QY 121 GCGCTGCCCTGCTGCCACAGGAGTTCCTCAGGTGTGTTCCCTTAAATCGGAGGGGCT 180
 Db 243 GCGCTGCCCTGCTGCCACAGGAGTTCCTCAGGTGTGTTCCCTTAAATCGGAGGGGCT 302
 QY 181 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCATGTTGGCGAGCCATG 240
 Db 303 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCATGTTGGCGAGCCATG 362
 QY 241 TTCACTGGGGGCACTACATCCCAACGACTCCGAGGGCGGCTACTTTCATCGACCGAGAT 300
 Db 363 TTCACTGGGGGCACTACATCCCAACGACTCCGAGGGCGGCTACTTTCATCGACCGAGAT 422
 QY 301 GGCACACACTTTGGGTATGT 320
 Db 423 GGCACACACTTTGGGTATGT 442

RESULT 5
 LOCUS AX714361 2576 bp DNA linear PAT 15-APR-2003
 DEFINITION Sequence 1045 from Patent EPI293569.
 ACCESSION AX714361
 VERSION AX714361.1 GI:29889313

KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 BUKARYOTA; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Iisogai, T., Sugiyama, T., Otsuki, T., Wakamatsu, A., Sato, H., Ishii, S.,
 Yamamoto, J. I., Isono, Y., Hio, Y., Otsuka, K., Nagai, K., Irie, R.,
 Tamechika, I., Seki, N., Yoshikawa, T., Otsuka, M., Nagahara, K. and
 Masuho, Y.

TITLE Full-length cDNAs
 JOURNAL Patent: EP 1293569-A 1045 19-MAR-2003;
 Biotechnology (JP); Research Association for
 Biotechnology (JP)

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 Best Local Similarity 99.4%; Pred. No. 8.3e-62;
 Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 61 TCTGAGCCCGAGACAGCATTTCTGAGCGCGCCAGACCGCGGACCGACCGAGCGGGGCAC 120
 DB 168 TCTGAGCCCGAGACAGCATTTCTGAGCGCGCCAGACCGCGGACCGACCGAGCGGGGCAC 227

QY 121 GCGTGGCCCTGCTGTCACAGGAGTTCTGAGGTTGTTCCCTTAACTACATCGAGGGGCT 180
 DB 228 GCGTGGCCCTGCTGTCACAGGAGTTCTGAGGTTGTTCCCTTAACTACATCGAGGGGCT 287

QY 181 CACTTCACTACAGCGCTGTCACACTGCGGTGTACGAGACACCATGTTGGCAGCCATG 240
 DB 288 CACTTCACTACAGCGCTGTCACACTGCGGTGTACGAGACACCATGTTGGCAGCCATG 347

QY 241 TTCAGTGGCGGCACATACATCCCGAGCGCGGAGCGCGGTACTTTCATCGACCGAGAT 300
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QY 301 GGCACACACTTTGGAGATGT 320
 DB 408 GGCACACACTTTGGAGATGT 427

RESULT 6
 LOCUS AK056631 2576 bp mRNA linear PRI 01-AUG-2002
 DEFINITION Homo sapiens cDNA FLJ32069 fis, clone OCBF1000118, weakly similar
 to TUMOR NECROSIS FACTOR, ALPHA-INDUCED PROTEIN 1, ENDOTHELIAL.
 ACCESSION AK056631
 VERSION AK056631.1 GI:16552086

KEYWORDS oligo capping; fis (full insert sequence).
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

BUKARYOTA; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Oshima, A., Takahashi-Fujii, A., Tanase, T., Imose, N., Takeuchi, K.,
 Arita, M., Musashino, K., Yuuki, H., Hara, H., Sugiyama, T., Irie, R.,
 Otsuki, T., Sato, H., Ota, T., Wakamatsu, A., Ishii, S., Yamamoto, J.,

Isono, Y., Kawai-Hio, Y., Saito, K., Nishikawa, T., Kimura, K.,
 Yamashita, H., Matsuo, K., Nakamura, Y., Sekine, M., Kikuchi, H.,
 Kanda, K., Wagatsuma, M., Murakawa, K., Kanehori, K., Sugiyama, A.,
 Kawakami, B., Suzuki, Y., Sugano, S., Nagahara, K., Masuho, Y., Nagai, K.
 and Iisogai, T.

NEDO human cDNA sequencing project
 Unpublished
 2 (bases 1 to 2576)
 Iisogai, T., Otsuki, T. and Sugiyama, T.

Submitted (24-OCT-2001) Takao Iisogai, Helix Research Institute,
 Genomics Laboratory; 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
 (E-mail: genomics@hri.co.jp, Tel: 81-438-52-3975, Fax: 81-438-52-3986)

COMMENT NEDO human cDNA sequencing project supported by Ministry of
 Economy, Trade and Industry of Japan; cDNA full insert sequencing:
 Research Association for Biotechnology (RAB); cDNA library
 construction: Helix Research Institute (HRI) (supported by Japan
 Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB,
 HRI, and Biotechnology Center, National Institute of Technology and
 Evaluation; clone selection for full insert sequencing: RAB and
 HRI.

FEATURES
 Location/Qualifiers
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 /mol_type="mRNA"
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ORIGIN
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 Best Local Similarity 99.4%; Pred. No. 8.3e-62;
 Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGTGGTATGTCAGCGGGGGGAGCCAGACAGCGCGTGTGTCAGGACGGTGCATGTCCAGC 60
 DB 108 ATGGTGGTATGTCAGCGGGGGGAGCCAGACAGCGCGTGTGTCAGGACGGTGCATGTCCAGC 167

QY 61 TCTGAGCCCGAGAGACAGCATTTCTGAGCGCGCCAGACCGCGGACCGACCGAGCGGGGCAC 120
 DB 168 TCTGAGCCCGAGAGACAGCATTTCTGAGCGCGCCAGACCGCGGACCGACCGAGCGGGGCAC 227

QY 121 GCGTGGCCCTGCTGTCACAGGAGTTCTGAGGTTGTTCCCTTAACTACATCGAGGGGCT 180
 DB 228 GCGTGGCCCTGCTGTCACAGGAGTTCTGAGGTTGTTCCCTTAACTACATCGAGGGGCT 287

QY 181 CACTTCACTACAGCGCTGTCACACTGCGGTGTACGAGACACCATGTTGGCAGCCATG 240
 DB 288 CACTTCACTACAGCGCTGTCACACTGCGGTGTACGAGACACCATGTTGGCAGCCATG 347

QY 241 TTCAGTGGCGGCACATACATCCCGAGCGCGGAGCGCGGTACTTTCATCGACCGAGAT 300
 DB 348 TTCAGTGGCGGCACATACATCCCGAGCGCGGAGCGCGGTACTTTCATCGACCGAGAT 407

QY 301 GGCACACACTTTGGAGATGT 320
 DB 408 GGCACACACTTTGGAGATGT 427


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RESULT 7
BD183414
LOCUS      BD183414
DEFINITION Novel genes and proteins encoded by the genes.
ACCESSION BD183414
VERSION    BD183414.1 GI:31875614
KEYWORDS   JP 2002345492-A/127.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 4807)
AUTHORS    Ohara,O., Nagase,T. and Nakajima,D.
TITLE       Novel genes and proteins encoded by the genes
JOURNAL     Patent: JP 2002345492-A 127 03-DEC-2002;
            KAZUSA DNA RESEARCH INSTITUTE
COMMENT     OS Homo sapiens (human)
            PN JP 2002345492-A/127
            PD 03-DEC-2002
            PF 26-FEB-2002 JP 2002049009
            PI OSAMU OHARA, TAKAHIRO NAGASE, DAISUKE NAKAJIMA
            PC C12N15/09, C07K14/47//A61K31/711, A61K38/00, A61P25/00,
            A61P25/14,
            PC A61P25/18, A61P35/00, C12N15/00, A61K37/02
            CC Novel genes and proteins encoded by the genes FH Key
            CDS Location/Qualifiers
            FT CDS Location/Qualifiers
            source      1. 4807
                        /organism="Homo sapiens"
                        /mol_type="genomic DNA"
                        /db_xref="taxon:9606"

ORIGIN
Query Match      86.8%; Score 315.2; DB 6; Length 4807;
Best Local Similarity 99.1%; Pred. No. 1.8e-61;
Matches 317; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ATGTGTTAGTCACGGCGGGGAGCCGACAGCGCTGTCAGGACGCTGTCATGTCGATGTCAGC 60
Db 123 ATGTGTTAGTCACGGCGGGGAGCCGACAGCGCTGTCAGGACGCTGTCATGTCGATGTCAGC 182
Qy 61 TCTGACGCGGAGACGACTTCTGGAGCGCGCCAGCGCCAGCGCCAGCGCGGGGCAC 120
Db 183 TCTGACGCGGAGACGACTTCTGGAGCGCGCCAGCGCCAGCGCCAGCGCGGGGCAC 242
Qy 121 GCGTGGCCCTGCTGCCACAGAGATTCTCTGAGGTGTGTCCTTACATCGAGGGGCT 180
Db 243 GCGTGGCCCTGCTGCCACAGAGATTCTCTGAGGTGTGTCCTTACATCGAGGGGCT 302
Qy 181 CACTTCACACACGCTGTCCACACTGGGTGCTACGAAGACACCATGTTGGCAGCCATG 240
Db 303 CACTTCACACACGCTGTCCACACTGGGTGCTACGAAGACACCATGTTGGCAGCCATG 362
Qy 241 TTCACTGGCGGCGACTACATCCCAAGAGCTCCGAGGCGCGGTACTTCAATCGACCGAGAT 300
Db 363 TTCACTGGCGGCGACTACATCCCAAGAGCTCCGAGGCGCGGTACTTCAATCGACCGAGAT 422
Qy 301 GGCACACACTTTGGGTATGT 320
Db 423 GGCACACACTTTGGAGATGT 442

RESULT 8
AC006001/c
LOCUS      AC006001
DEFINITION Homo sapiens PAC clone RP4-756H11 from 7, complete sequence.
ACCESSION AC006001
VERSION    AC006001.2 GI:5708496
KEYWORDS   HTG.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```

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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 135044)
AUTHORS    Sulston,J.E. and Wilson,R.
TITLE       Toward a complete human genome sequence
JOURNAL     Genome Res. 8 (11), 1097-1108 (1998)
MEDLINE     95063792
PUBMED      9847074
REFERENCE  2 (bases 1 to 135044)
AUTHORS    Lamar,B., Le,T. and Wohldmann,P.
TITLE       The sequence of Homo sapiens PAC clone RP4-756H11
JOURNAL     Unpublished (2001)
REFERENCE  3 (bases 1 to 135044)
AUTHORS    Waterston,R.H.
TITLE       Direct Submission
JOURNAL     Submitted (22-NOV-1998) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
REFERENCE  4 (bases 1 to 135044)
AUTHORS    Waterston,R.H.
TITLE       Direct Submission
JOURNAL     Submitted (07-AUG-1999) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
REFERENCE  5 (bases 1 to 135044)
AUTHORS    Waterston,R.
TITLE       Direct Submission
JOURNAL     Submitted (30-SEP-2000) Department of Genetics, Washington
            University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
REFERENCE  6 (bases 1 to 135044)
AUTHORS    Waterston,R.
TITLE       Direct Submission
JOURNAL     Submitted (26-APR-2003) Department of Genetics, Washington
            University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
REFERENCE  7 (bases 1 to 135044)
AUTHORS    Wilson,R.
TITLE       Direct Submission
JOURNAL     Submitted (02-OCT-2003) Department of Genetics, Washington
            University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
            On Aug 8, 1999 this sequence version replaced gi:3907522.
            ----- Genome Center
            Center: Washington University Genome Sequencing Center
            Center code: WUGSC
            Web site: http://genome.wustl.edu
            Contact: sapiens@watson.wustl.edu
            ----- Summary Statistics
            -----
            Center project name: H_DJ0756H11
            -----

NOTICE: This sequence may not represent the entire insert of this
clone. It may be shorter because we only sequence overlapping
clone sections once, or longer because we provide a small overlap
between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:
The sequence of this clone was established as part of a mapping and
sequencing collaboration between the NHGRI Chromosome 7 Mapping
Project (Eric D. Green, Director), John D. McPherson in the
Department of Genetics (Washington University), and the Washington
University Genome Sequencing Center. For additional information
about the map position of this sequence, see
http://www.nhgri.nih.gov/DIR/GRB/CHR7, send
mailto:egreen@nhgri.nih.gov, or see http://genome.wustl.edu

SOURCE INFORMATION:
This clone was derived from human PAC library RPCI-4, prepared by

```


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OM nucleic - nucleic search, using sw model

Run on: June 8, 2004, 07:09:53 ; Search time 357 Seconds
(without alignments)
4319.596 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363

Sequence: 1 atggttgtagtcacggggcg.....tagtcttagcaggtgattag 363

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 212409041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N Geneseq_29Jan04:*

- 1: Geneseqn1980s:*
- 2: Geneseqn1990s:*
- 3: Geneseqn2000s:*
- 4: Geneseqn2001as:*
- 5: Geneseqn2001bs:*
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- 8: Geneseqn2003bs:*
- 9: Geneseqn2003cs:*
- 10: Geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	363	100.0	680	ABS55072	Human nov
2	316.8	87.3	519	AH99183	Human pro
3	316.8	87.3	1068	ABX71180	Novel hum
4	316.8	87.3	1124	AA95776	Human imm
5	316.8	87.3	2576	ADA53477	Human cod
6	221.8	61.1	473	AA111478	Probe #14
7	221.8	61.1	473	AA53148	Human foe
8	221.8	61.1	473	AA132753	Probe #14
9	221.8	61.1	473	ABA42720	Human bre
10	221.8	61.1	473	ABA22919	Probe #13
11	221.8	61.1	473	AAK26849	Human bon
12	221.8	61.1	473	AAK01395	Human bra
13	221.8	61.1	473	ABS26442	Human liv
14	221.8	61.1	473	AA101392	Probe #13
15	221.8	61.1	473	ABS01448	Human gen
16	220.2	60.7	321	ABS55071	Human nov
17	203.8	56.1	246	AAK03296	Human sec
18	172	47.4	173	AA120691	Probe #10
19	172	47.4	173	ABA65740	Human foe
20	172	47.4	173	AA145906	Probe #14
21	172	47.4	173	ABA47847	Human bre
22	172	47.4	173	ABA32824	Probe #11
23	172	47.4	173	AAK39882	Human bon

C 24	172	47.4	173	4	AAK14142	Human bra
C 25	172	47.4	173	4	ABS39473	Human liv
C 26	172	47.4	173	5	AA106389	Probe #63
C 27	172	47.4	173	6	ABS13980	Human gen
C 28	93.2	25.7	592	6	ABQ17137	Oligonuc1
C 29	93.2	25.7	592	6	ABQ17136	Oligonuc1
C 30	88	24.2	592	6	ABQ17135	Oligonuc1
C 31	88	24.2	592	6	ABQ17134	Oligonuc1
C 32	66.2	18.2	785	6	ABS77158	Frog embr
C 33	61.8	17.0	484	8	ACH25380	Human adu
C 34	61.8	17.0	592	4	AA107161	Human rep
C 35	61.8	17.0	592	4	AA107162	Human rep
C 36	61.8	17.0	592	4	AA107163	Human rep
C 37	61.8	17.0	1014	4	AAH9818	Human pro
C 38	61.8	17.0	1109	6	ABZ11790	Human pol
C 39	61.8	17.0	3343	4	AA17473	Human tra
C 40	57.2	15.8	242	3	AAK03555	Human sec
C 41	57.2	15.8	706	5	AAH80555	DNA encod
C 42	57.2	15.8	1718	4	AAK09555	Human tra
C 43	57	15.7	591	4	AAH33332	Human col
C 44	57	15.7	592	3	AAK98096	Human col
C 45	57	15.7	1696	6	ABQ73684	Human pot

ALIGNMENTS

RESULT 1

ABS55072

ID ABS55072 standard; cDNA; 680 BP.

XX AC ABS55072;

XX DT 10-DEC-2002 (first entry)

XX DE Human novel membrane protein cDNA #2.

XX KM Human; ss; gene; membrane protein; signal transduction; ion channel;

XX KW cancer; arthritis; antiviral; cytostatic; antiarthritic; nutritional;

XX KM cosmetic; SNP; single nucleotide polymorphism.

XX OS Homo sapiens.

XX FH Key

XX CDS

XX Location/Qualifiers

XX 198..560

XX /tag= a

XX /product= "Membrane protein"

XX /note= "This CDS is specifically claimed in claim 2"

XX replace(231,A)

XX /tag= b

XX /standard_name= "Single nucleotide polymorphism"

XX replace(295,T)

XX /tag= c

XX /standard_name= "Single nucleotide polymorphism"

XX replace(432,T)

XX /tag= d

XX /standard_name= "Single nucleotide polymorphism"

XX US2002119522-A1.

XX 29-AUG-2002.

XX 18-DEC-2001; 2001US-00024579.

XX 28-DEC-2000; 2000US-0258595P.

XX (FRID/) FRIDDLE C J.

XX (GERH/) GERHARDT B.

XX (HILB/) HILBUN E.

XX (TURN/) TURNER C A.

XX Priddle CJ, Gerhardt B, Hilbun E, Turner CA;

DR WPI: 2002-731353/79.
XX P-PSDB; ABG70921.
PT New human ion channel-related nucleic acid sequences useful for the
PT treatment of cancer, arthritis or as antiviral agents, in therapeutic,
XX diagnostic and pharmacogenomic applications.
PS Disclosure; Page 13; 20pp; English.
XX
CC The invention relates to an isolated nucleic acid molecule encoding a
CC novel human membrane protein/ion channel-related protein, including a
CC vector sequence encoding the proteins. The nucleic acid and its encoded
CC amino acid sequences are useful in therapeutic, diagnostic and
CC pharmacogenomic applications. The nucleic acid sequences and the encoding
CC amino acid sequences are useful in microarrays or other assay formats, to
CC screen a collection of genetic material from patients that have
CC particular medical conditions, and to identify mutations associated with
CC a particular disease, and also in diagnostic or prognostic assays.
CC Nucleic acid sequences and the amino acid sequences are useful in
CC screening of drugs effective in the treatment of symptomatic or
CC phenotypic manifestation perturbing the normal function of a new human
CC protein (NHP) in the body. The nucleic acid and the amino acid sequences
CC are useful in diagnosis, drug screening, clinical trial monitoring, the
CC treatment of diseases and disorders and in cosmetic or nutritional
CC applications. NHPs are useful to treat a disease, or to therapeutically
CC augment the efficacy of chemotherapeutic agents useful in the treatment
CC of cancer, arthritis or as antiviral agents. The present sequence is a
CC cDNA encoding a novel human membrane protein/ion channel-related protein
XX
SQ Sequence 680 BP; 126 A; 212 C; 201 G; 139 T; 0 U; 2 Other;

Query Match 100.0%; Score 363; DB 6; Length 680;
Best Local Similarity 100.0%; Pred. NO. 2.2e-89;
Matches 363; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGGTGTAGTACACGCGCGGCGGAGCCAGACAGCGCGTCTCAGGACGTCGCTCCAGC 60
DB 198 ATGGTGTAGTACACGCGCGGCGGAGCCAGACAGCGCGTCTCAGGACGTCGCTCCAGC 257
QY 61 TCTGACCCCGGACGACGCTTCTTGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
DB 258 TCTGACCCCGGACGACGCTTCTTGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 317
QY 121 GCGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
DB 318 GCGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 377
QY 181 CACTTCACTACACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
DB 378 CACTTCACTACACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 437
QY 241 TTCACTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
DB 438 TTCACTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 497
QY 301 GGACACACTTTGGGTATGCT 360
DB 498 GGACACACTTTGGGTATGCT 557

RESULT 2
AAH99183
ID AAH99183 standard; cDNA; 519 BP.
XX
AC AAH99183;
XX
D7 16-OCT-2001 (first entry)
XX
DE Human protein encoding cDNA sequence SEQ ID NO:18.

XX Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
KW antiinflammatory; antirheumatic; antiarthritic; immunosuppressive;
KW antibacterial; endocrine; cardiac; central nervous system; virucide;
KW anti-HIV; fungicide; antimutagen; cardiovascular; antineoplastic; aneemia;
KW antiagregant; haemostatic; vulnary; antileukemic; osteopathic; eczema;
KW dermatological; antiallergic; antisthmatic; antidiabetic; cytostatic;
KW neuroprotective; antidepressant; nootropic; antiparkinsonian; infection;
KW immunostimulant; gene therapy; antitense therapy; vaccine; inflammation;
KW antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
KW cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
KW genetic disease; haematopoietic disorder; platelet disorder; asthma;
KW thrombocytopaenia; osteoporosis; severe combined immunodeficiency;
KW allergic rhinitis; diabetes; multiple sclerosis; depression;
KW Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
KW neurological disorder; ss.
XX Homo sapiens.
OS WO200153455-A2.
XX 26-JUL-2001.
XX 22-DEC-2000; 2000WO-US035017.
XX 23-DEC-1999; 99US-00471275.
XX 21-JAN-2000; 2000US-00488725.
XX 25-APR-2000; 2000US-00552317.
XX (HYSE-) HYSEQ INC.
XX Tang YT, Liu C, Drmanac RT;
PI WPI: 2001-457603/49.
XX P-PSDB; AAM25242.
XX Isolated human polynucleotides encoding polypeptides, useful for the
PT treatment and diagnosis of e.g. cancer, ulcers and HIV infection.
XX
PS Claim 1; Page 309; 1217pp; English.
XX
CC AAH99166 to AAH99304 encode the human proteins given in AAM25225 to
CC AAM25963. The proteins can have activities based on the tissues and cells
CC they are expressed in, such as: antiinflammatory; antirheumatic;
CC antiarthritic; immunosuppressive; antibacterial; endocrine; cardiac;
CC central nervous system; virucide; anti-HIV; fungicide; antimutagen;
CC cardiovascular; antineoplastic; antileukemic; osteopathic; eczema;
CC antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;
CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
CC encoding them can be used in gene therapy, antitense therapy and vaccine
CC production. The proteins and polynucleotides are useful for screening for
CC agonists or antagonists of a protein and for the treatment and diagnosis of
CC disorders associated with the activity of a protein e.g. inflammation,
CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
CC anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,
CC osteoporosis, severe combined immunodeficiency, eczema, allergic
CC rhinitis, asthma, diabetes, cancer; multiple sclerosis; depression,
CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
CC neurological disorders
XX
SQ Sequence 519 BP; 101 A; 169 C; 160 G; 89 T; 0 U; 0 Other;

Query Match 87.3%; Score 316.8; DB 4; Length 519;
Best Local Similarity 99.4%; Pred. NO. 8.7e-77;
Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 ATGGTGTAGTACACGCGCGGCGGAGCCAGACGCGGTCGTAGACGCGGTGCATGTCACG 60
DB 69 ATGGTGTAGTACACGCGCGGCGGAGCCAGACGCGGTCGTAGACGCGGTGCATGTCACG 128

XX PF 04-APR-2000; 2000MO-US009072.
 XX PR 05-APR-1999; 99US-0127852P.
 XX PR 05-MAY-1999; 99US-0132647P.
 XX PA (INCY-) INCYTE PHARM INC.
 XX PI Yue H, Lal P, Tang YT, Baughn MR, Azimzai Y, Lu DAM;
 XX DR P-PSDB; AAB15537.
 XX PT New human immune system molecules 1-15 and polynucleotides encoding them
 XX PT useful for diagnosing, treating or preventing e.g. immunological
 XX PT disorders, infections, cell proliferative disorders, microbial
 XX PT infections.
 XX PS Claim 4; Page 88; 95pp; English.
 XX CC This sequence represents the cDNA for a human immune system molecule
 CC (IMOL) isolated as clone 2751129 from the Incyte RHFA508 library. The
 CC human IMOLs (AAB15536-B15550) and their encoding polynucleotides
 CC (AAA95775-A95789), and compositions comprising them are useful for the
 CC diagnosis, treatment or prevention of immunological disorders, infections
 CC and cell proliferative disorders, including cancer. The IMOL may be used
 CC to treat or prevent disorders associated with decreased expression or
 CC activity of IMOL, such as immunological disorders (e.g. inflammation,
 CC actinic keratosis, AIDS, Addison's disease), haematopoietic cancer,
 CC infections caused by virus (e.g. adenovirus, parvovirus, coronavirus),
 CC bacteria (e.g. Staphylococcus, Streptococcus, Shigella), fungi (e.g.
 CC Aspergillus, Blastomycetes), parasites (e.g. Plasmodium, Trypanosoma,
 CC intestinal protozoa), cell proliferative disorders (e.g. actinic
 CC keratosis, arteriosclerosis, bursitis), and cancers (e.g. leukemia,
 CC melanoma, sarcoma). The peptides are also useful as immunogens for the
 CC development of antibodies that specifically recognize these peptides.
 CC The polynucleotides may be used to detect and quantify gene expression in
 CC biopsied tissues in which expression of IMOL may be correlated with the
 CC disease, as targets in a microarray, to detect differences in gene
 CC sequences among normal, carrier and affected individuals, and for
 CC screening libraries of compounds in drug screening techniques. Antibodies
 CC which specifically bind to IMOL may be used for the diagnosis of
 CC disorders characterized by expression of IMOL, or in assays to monitor
 CC patients being treated with IMOL or agonists, antagonists, or inhibitors
 CC of IMOL
 XX SQ Sequence 1124 BP; 227 A; 319 C; 343 G; 233 T; 0 U; 2 Other;
 Query Match 87.3%; Score 316.8; DB 3; Length 1124;
 Best Local Similarity 99.4%; Pred. No. 1.1e-76;
 Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 ATGTTGGTGTAGTCACGGGGGGGAGCCAGACAGCCGCTGTCAGGACGGTGCCATGTCAGC 60
 DB 28 ATGTTGGTGTAGTCACGGGGGGGAGCCAGACAGCCGCTGTCAGGACGGTGCCATGTCAGC 87
 QY 61 TCTGACGCGGAAGACGACTTTCTTGAGCGGGCCAGCGCGGCGCCAGCGAGCGGGGCAC 120
 DB 88 TCTGACGCGGAAGACGACTTTCTTGAGCGGGCCAGCGCGGCGCCAGCGAGCGGGGCAC 147
 QY 121 GCGCTGCCCTGTCGACACAGGAGTTCTTCCGAGGTGTTCCCTTAACTACGAGGGGCT 180
 DB 148 GCGCTGCCCTGTCGACACAGGAGTTCTTCCGAGGTGTTCCCTTAACTACGAGGGGCT 207
 QY 181 CACTTCACTACACGCTGTCCACTGCGGTGCTACGAGACACCAATGTTGGAGGCCATG 240
 DB 208 CACTTCACTACACGCTGTCCACTGCGGTGCTACGAGACACCAATGTTGGAGGCCATG 267
 QY 241 TTGAGTGGGGGACATACATCCCAACGACTCCGAGGGCGGTACTTCATCGACCCAGAT 300
 DB 268 TTCAGTGGGGGACATACATCCCAACGACTCCGAGGGCGGTACTTCATCGACCCAGAT 327
 QY 301 GGCACACACTTTGGGTATGT 320

DB 328 GGCACACACTTTGGGTATGT 347
 RESULT 5
 ADA53477
 ID ADA53477 standard; cDNA; 2576 BP.
 XX AC ADA53477;
 XX DT 20-NOV-2003 (first entry)
 XX DE Human coding sequence, SEQ ID 1045.
 XX KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
 KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
 KW inflammatory disease; osteoporosis; neurological disease; gene; ss.
 XX OS Homo sapiens.
 XX PN EP1293569-A2.
 XX PD 19-MAR-2003.
 XX PF 21-MAR-2002; 2002EP-00006586.
 XX PR 14-SEP-2001; 2001JP-00328381.
 XX PR 24-JAN-2002; 2002JP-0350435P.
 XX (HELI-) HELIX RES INST.
 XX (REAS-) RES ASSOC BIOTECHNOLOGY.
 XX PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S,
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I,
 PI Seki N, Yoshikawa T, Otsuka M, Nagahara K, Masuho Y;
 XX WPI; 2003-395539/38.
 XX F-PSDB; ADA55116.
 XX New polynucleotides encoding full-length polypeptides, e.g. secretory
 PT and/or membrane proteins, useful for developing medicines for diseases in
 PT which the gene is involved, or as target molecules for gene therapy.
 XX Claim 1; SEQ ID NO 1045; 205pp; English.
 XX The present invention relates to novel human secretory or membrane
 CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
 CC ADA54071). The coding sequences are useful in the gene therapy of
 CC diseases caused by abnormalities of the proteins, e.g. cancer,
 CC inflammatory diseases, osteoporosis or neurological disease.
 XX SQ Sequence 2576 BP; 543 A; 732 C; 661 G; 640 T; 0 U; 0 Other;
 Query Match 87.3%; Score 316.8; DB 7; Length 2576;
 Best Local Similarity 99.4%; Pred. No. 1.3e-76;
 Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 ATGTTGGTGTAGTCACGGGGGGGAGCCAGACAGCCGCTGTCAGGACGGTGCCATGTCAGC 60
 DB 108 ATGTTGGTGTAGTCACGGGGGGGAGCCAGACAGCCGCTGTCAGGACGGTGCCATGTCAGC 167
 QY 61 TCTGACGCGGAAGACGACTTTCTTGAGCGGGCCAGCGCGGCGCCAGCGAGCGGGGCAC 120
 DB 168 TCTGACGCGGAAGACGACTTTCTTGAGCGGGCCAGCGCGGCGCCAGCGAGCGGGGCAC 227
 QY 121 GCGCTGCCCTGTCGACACAGGAGTTCTTCCGAGGTGTTCCCTTAACTACGAGGGGCT 180
 DB 228 GCGCTGCCCTGTCGACACAGGAGTTCTTCCGAGGTGTTCCCTTAACTACGAGGGGCT 287
 QY 181 CACTTCACTACACGCTGTCCACTGCGGTGCTACGAGACACCAATGTTGGAGGCCATG 240
 DB 288 CACTTCACTACACGCTGTCCACTGCGGTGCTACGAGACACCAATGTTGGAGGCCATG 347

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 8, 2004, 09:16:13 ; Search time 84 Seconds
(without alignments)
2398.181 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363

Sequence: 1 atggttggtgtcagcggggcg.....tagctctagcagggtgattag 363

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

1: /cgm2_6/ptodata/2/ina/5A COMB.seq:*

2: /cgm2_6/ptodata/2/ina/5B COMB.seq:*

3: /cgm2_6/ptodata/2/ina/6A COMB.seq:*

4: /cgm2_6/ptodata/2/ina/6B COMB.seq:*

5: /cgm2_6/ptodata/2/ina/FCRUS COMB.seq:*

6: /cgm2_6/ptodata/2/ina/backfiles.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	49.2	13.5	318	4	US-09-621-976-1336
2	48.4	13.3	1542	4	US-09-336-643A-24
3	48.4	13.3	1751	4	US-09-336-643A-23
4	48.4	13.3	1800	4	US-09-336-643A-21
5	48.4	13.3	1836	4	US-09-336-643A-22
6	42.6	11.7	1450	4	US-09-620-312D-1058
7	42.6	11.7	1862	4	US-09-336-643A-11
8	40.4	11.1	1742	4	US-09-620-312D-957
9	35.6	9.8	783	4	US-09-252-991A-3285
10	35.6	9.8	1044	4	US-09-252-991A-3218
11	35.6	9.8	1434	4	US-09-252-991A-3351
12	35	9.6	789	4	US-09-489-039A-4812
13	34.4	9.5	471	4	US-09-252-991A-4718
14	34.4	9.5	612	4	US-09-252-991A-4793
15	34.4	9.5	954	4	US-09-252-991A-4820
16	34.4	9.5	2865	4	US-09-252-991A-4675
17	34.4	9.5	4563	4	US-09-252-991A-4765
18	34.4	9.5	5092	3	US-09-412-545-1
19	34.2	9.4	711	4	US-09-252-991A-1589
20	34.2	9.4	4403765	3	US-09-103-840A-2
21	34.2	9.4	4411529	3	US-09-103-840A-1
22	33.8	9.3	3722	4	US-10-164-595-9
23	33.6	9.3	430	4	US-09-621-976-16656
24	33.4	9.2	996	4	US-09-252-991A-2201
25	33.4	9.2	1641	4	US-09-252-991A-2551
26	33.4	9.2	1791	4	US-09-252-991A-2363
27	33	9.1	690	4	US-09-252-991A-3288

28 9.1 898 2 US-08-997-080-185 Sequence 185, App

29 9.1 898 3 US-08-997-362-185 Sequence 185, App

30 9.1 898 3 US-09-095-855-185 Sequence 185, App

31 9.1 898 4 US-09-324-542-185 Sequence 185, App

32 9.1 898 4 US-09-205-426-185 Sequence 185, App

33 9.1 1173 4 US-09-252-991A-3422 Sequence 3422, Ap

34 9.1 1364 3 US-09-095-855-204 Sequence 204, App

35 9.1 1364 4 US-09-205-426-204 Sequence 204, App

36 9.1 1364 4 US-09-252-991A-3260 Sequence 2260, Ap

37 9.1 3937 4 US-10-164-595-7 Sequence 7, Appli

38 9.0 4403765 3 US-09-103-840A-2 Sequence 2, Appli

39 9.0 4411529 3 US-09-103-840A-1 Sequence 1, Appli

40 9.0 1500 4 US-09-252-991A-6254 Sequence 6254, Ap

41 9.0 1536 4 US-09-266-965-60 Sequence 60, Appl

42 9.0 1695 4 US-09-252-991A-6044 Sequence 6044, Ap

43 9.0 2073 4 US-09-489-039A-3869 Sequence 3869, Ap

44 9.0 20235 1 US-07-642-734C-3 Sequence 3, Appli

45 9.0 20235 3 US-08-439-009A-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-621-976-1336

; Sequence 1336, Application US/09621976

; Patent No. 6639063

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, J.B.

; APPLICANT: Jobert, S.

; APPLICANT: Giordano, J.Y.

; TITLE OF INVENTION: ESTs and Encoded Human Proteins.

; FILE REFERENCE: GENSET.054PR2

; CURRENT APPLICATION NUMBER: US/09/621,976

; CURRENT FILING DATE: 2000-07-21

; NUMBER OF SEQ ID NOS: 19335

; SOFTWARE: Patent.pm

; SEQ ID NO 1336

; LENGTH: 318

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 39..317

; US-09-621-976-1336

Query Match 13.6%; Score 49.2; DB 4; Length 318;

Best Local Similarity 63.0%; Pred. No. 0.00012;

Matches 92; Conservative 0; Mismatches 53; Indels 1; Gaps 1;

Qy 169 ATCGAGGGGCTCACTTCTACTACACGCCCTGTCCACACTGGGTGCTACGAGACACCATG 228

Db 148 ATGTGGTGGAGCCCTCTACTATACCACCATGCAGAC-GCTGACCAAGCAGGACCATG 206

Qy 229 TTGGCAGCCATGTTTCAGTGGGGGCGGCACTACATCCCAACGACTCCGAGGGCGGCTACTTC 288

Db 207 CTGAAGCCCAATGTTTCAGCGGGCCATGGAGTGTCTCCGACAGTGAAGGTGATCTTC 266

Qy 289 ATCGACCGAGATGGCAGACACTTTGG 314

Db 267 ATTGACCGCTGTGGGAGCAGCATTGG 292

RESULT 2

US-09-336-643A-24

; Sequence 24, Application US/09336643A

; Patent No. 6399761

; GENERAL INFORMATION:

; APPLICANT: Miller, Andrew P.

; APPLICANT: Curran, Mark Edward

; APPLICANT: Hu, Ping

; APPLICANT: Rutter, Marc

; APPLICANT: Wang, Jian-Wang

;; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
;; FILE REFERENCE: SEQ-15P
;; CURRENT APPLICATION NUMBER: US/09/336,643A
;; CURRENT FILING DATE: 1999-06-18
;; PRIOR APPLICATION NUMBER: 60/076,687
;; PRIOR FILING DATE: 1998-08-07
;; PRIOR APPLICATION NUMBER: 60/116,448
;; PRIOR FILING DATE: 1999-01-19
;; PRIOR APPLICATION NUMBER: PCT/US99/03826
;; PRIOR FILING DATE: 1999-02-22
;; NUMBER OF SEQ ID NOS: 87
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 24
;; TYPE: DNA
;; ORGANISM: H. sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (88)...(799)
;; OTHER INFORMATION: K+Hnov28, splice 4
US-09-336-643A-24

Query Match 13.3%; Score 48.4; DB 4; Length 1542;
Best Local Similarity 54.5%; Pred. No. 0.00032;
Matches 97; Conservative 0; Mismatches 81; Indels 0; Gaps 0;
QY 144 GTTTCCTGAGGTGTTCCCTTAACATCGAGGGGCTCACTTCATACAGCGCTGTCCAC 203
Db 114 GATGACTGACCCCACTACATTAATGTTAGTGGGACTTCTTCACCCAC 173
QY 204 ACTGGGTGCTACGAAGACACCATGTTGCGAGCGGCTCACTTCATACAGCGCTGTCCAC 263
Db 174 ATTGACGGTTACCGGATTCATGCTTGGAGCTAATGTTGGGGGAGCTTCCACAC 233
QY 264 CACGAGCTCCGAGGGCGGTACTTCATCGACCGAGATGGCACACACTTTGGGTATGTC 321
Db 234 TCGAGACCTCAAGGCAATTAATTTATGATCGAGATGGACCTCTTTCCGATATGTC 291

RESULT 3
US-09-336-643A-23
; Sequence 23, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 1800
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (346)...(1057)
; OTHER INFORMATION: K+Hnov28, splice 1
US-09-336-643A-21

Query Match 13.3%; Score 48.4; DB 4; Length 1800;
Best Local Similarity 54.5%; Pred. No. 0.00033;
Matches 97; Conservative 0; Mismatches 81; Indels 0; Gaps 0;
QY 144 GTTTCCTGAGGTGTTCCCTTAACATCGAGGGGCTCACTTCATACAGCGCTGTCCAC 203
Db 372 GATGACTGACCCCACTACATTAATGTTAGTGGGACTTCTTCACCCAC 431
QY 204 ACTGGGTGCTACGAAGACACCATGTTGCGAGCGGCTCACTTCATACAGCGCTGTCCAC 263
Db 432 ATTGACGGTTACCGGATTCATGCTTGGAGCTAATGTTGGGGGAGCTTCCACAC 491
QY 264 CACGAGCTCCGAGGGCGGTACTTCATCGACCGAGATGGCACACACTTTGGGTATGTC 321
Db 492 TCGAGACCTCAAGGCAATTAATTTATGATCGAGATGGACCTCTTTCCGATATGTC 549

RESULT 5
US-09-336-643A-22
; Sequence 22, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Rutter, Marc
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 1751
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (297)...(1008)
; OTHER INFORMATION: K+Hnov28 splice 3
US-09-336-643A-23

Query Match 13.3%; Score 48.4; DB 4; Length 1751;
Best Local Similarity 54.5%; Pred. No. 0.00033;
Matches 97; Conservative 0; Mismatches 81; Indels 0; Gaps 0;
QY 144 GTTTCCTGAGGTGTTCCCTTAACATCGAGGGGCTCACTTCATACAGCGCTGTCCAC 203
Db 372 GATGACTGACCCCACTACATTAATGTTAGTGGGACTTCTTCACCCAC 431
QY 204 ACTGGGTGCTACGAAGACACCATGTTGCGAGCGGCTCACTTCATACAGCGCTGTCCAC 263
Db 432 ATTGACGGTTACCGGATTCATGCTTGGAGCTAATGTTGGGGGAGCTTCCACAC 491
QY 264 CACGAGCTCCGAGGGCGGTACTTCATCGACCGAGATGGCACACACTTTGGGTATGTC 321
Db 492 TCGAGACCTCAAGGCAATTAATTTATGATCGAGATGGACCTCTTTCCGATATGTC 549

RESULT 4
US-09-336-643A-21
; Sequence 21, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 1800
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (346)...(1057)
; OTHER INFORMATION: K+Hnov28, splice 1
US-09-336-643A-21

Query Match 13.3%; Score 48.4; DB 4; Length 1751;
Best Local Similarity 54.5%; Pred. No. 0.00033;
Matches 97; Conservative 0; Mismatches 81; Indels 0; Gaps 0;
QY 144 GTTTCCTGAGGTGTTCCCTTAACATCGAGGGGCTCACTTCATACAGCGCTGTCCAC 203
Db 114 GATGACTGACCCCACTACATTAATGTTAGTGGGACTTCTTCACCCAC 173
QY 204 ACTGGGTGCTACGAAGACACCATGTTGCGAGCGGCTCACTTCATACAGCGCTGTCCAC 263
Db 174 ATTGACGGTTACCGGATTCATGCTTGGAGCTAATGTTGGGGGAGCTTCCACAC 233
QY 264 CACGAGCTCCGAGGGCGGTACTTCATCGACCGAGATGGCACACACTTTGGGTATGTC 321
Db 234 TCGAGACCTCAAGGCAATTAATTTATGATCGAGATGGACCTCTTTCCGATATGTC 291

RT	"Analysis of the mouse transcriptome based on functional annotation of
RT	60,770 full-length cDNAs."
RL	Nature 420:563-573(2002).
DR	EXBL; AK029942; BAC26691.1; --
DR	MGD; MGI:2442265; 9430010P06Rik.
DR	GO: GO:0016020; C:membrane; IEA.
DR	GO: GO:0080876; C:voltage-gated potassium channel complex; IEA.
DR	GO: GO:0005151; F:protein binding; IEA.
DR	GO: GO:0005249; F:voltage-gated potassium channel activity; IEA.
DR	GO: GO:0006813; P:potassium ion transport; IEA.
DR	InterPro; IPR000210; BTB_POZ.
DR	pfam; PF02214; K tetra; 1.
DR	SMART; SM00325; BTB; 1.
SQ	SEQUENCE 239 AA; 27173 MW; A889D2E9CBCE528A CRC64;
Query Match	84.1%; Score 530.5; DB 11; Length 239;
Best Local Similarity	87.5%; Pred.No. 1e-49; 6; Indels 5; Gaps 2;
Matches 105; Conservative	4; Mismatches
Qy	1 MVVVTGEPDSRRQDGAMSSSDADDLFLEPATPTATQAAGHALPLLPOEPPVVPLNIGGA 60
Dy	
Db	1 MVVVTGEPDSRHSDGAMSSSRAEDDFLEPATTTATQAAGHGLPLLPOEPPVVPLNIGGA 60
Qy	61 HFTRITSLTLCYEDTTLAAAFSGRHVIPTDSGRYPIDRDGTGHGVSPSTINFEVLAD 120
Dy	
Db	61 HFTRITSLTRYEDTTLAAAFSGRHVIPTDSGRYPIDRDGTGHGVSPSTINFEVLAD 115
RESULT 4	
ID	OB8JUKI PRELIMINARY; ; PRT; 289 AA.
QC	OB8JUKI
AC	OB8JUKI
DT	01-MAR-2003 (TrEMBLrel. 23, Created)
DT	01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT	01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE	CNA PLJ32069 FIS.
OS	9430010P06RIK.
GN	Mus musculus (Mouse).
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC	Mammalia; Eutharia; Rodentia; Sciurognathi; Muridae; Mus.
OX	KCBI_TaxID=10090;
[?]	
RP	SEQUENCE FROM N.A.
RC	STRAIN=C57BL/6J; TISSUE=Body;
RK	MEDLINE=22354683; PubMed=12466851;
RA	The FANTOM Consortium,
RA	the RIKEN Genome Exploration Research Group Phase I & II Team;
RT	"Analysis of the mouse transcriptome based on functional annotation of
RT	60,770 full-length cDNAs."
RL	Nature 420:563-573(2002).
DR	EXBL; AK083583; BAC38959.1; --
DR	MGD; MGI:2442265; 9430010P06Rik.
DR	GO: GO:0016020; C:membrane; IEA.
DR	GO: GO:0080876; C:voltage-gated potassium channel complex; IEA.
DR	GO: GO:0005151; F:protein binding; IEA.
DR	GO: GO:0005249; F:voltage-gated potassium channel activity; IEA.
DR	GO: GO:0006813; P:potassium ion transport; IEA.
DR	InterPro; IPR000210; BTB_POZ.
DR	pfam; PF02214; K tetra; 1.
DR	SMART; SM00225; BTB; 1.
SQ	SEQUENCE 289 AA; 33079 MW; 64263FA2ADI9FC2F CRC64;
Query Match	84.1%; Score 530.5; DB 11; Length 289;
Best Local Similarity	87.5%; Pred.No. 1.3e-49; 6; Indels 5; Gaps 2;
Matches 105; Conservative	4; Mismatches
Qy	1 MVVVTGEPDSRRQDGAMSSSDADDLFLEPATPTATQAAGHALPLLPOEPPVVPLNIGGA 60
Dy	
Db	1 MVVVTGEPDSRHSDGAMSSSRAEDDFLEPATTTATQAAGHGLPLLPOEPPVVPLNIGGA 60
Qy	61 HFTRITSLTLCYEDTTLAAAFSGRHVIPTDSGRYPIDRDGTGHGVSPSTINFEVLAD 120

GenCore version 5.1.1.6
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OM protein - protein search, using sw model

Run on: June 8, 2004, 10:14:29 ; Search time 79 Seconds
(without alignments)
479.268 Million cell updates/sec

Title: US-10-024-579-5
Perfect score: 631
Sequence: 1 MVVVTGPRDPRRRQDGMSS.....GTHFGYVSPSTNFWVLGAD 120

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL 25:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phase:*
- 10: sp_plant:*
- 11: sp_protist:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	560.5	88.8	288	4 Q81VR0	Q81VR0 homo sapien
2	560.5	88.8	289	4 Q96WP8	Q96WP8 homo sapien
3	530.5	84.1	239	11 Q8C0S7	Q8C0S7 mus musculus
4	530.5	84.1	289	11 Q8BJK1	Q8BJK1 mus musculus
5	164	26.0	346	11 Q8C4C2	Q8C4C2 mus musculus
6	164	26.0	438	11 Q8CAA9	Q8CAA9 mus musculus
7	164	26.0	476	11 Q8C906	Q8C906 mus musculus
8	164	26.0	476	11 Q8BR74	Q8BR74 mus musculus
9	163.5	25.9	214	6 Q9BE68	Q9BE68 macaca fasc
10	162.5	25.8	477	11 Q8C9B0	Q8C9B0 mus musculus
11	150.5	23.9	228	5 Q9VDH3	Q9VDH3 drosophila
12	146	23.1	228	4 Q8TCA6	Q8TCA6 homo sapien
13	146	23.1	237	4 Q8BNS6	Q8BNS6 homo sapien
14	146	23.1	237	11 Q8BNL5	Q8BNL5 mus musculus
15	143.5	22.7	329	11 Q8BGV7	Q8BGV7 mus musculus
16	142	22.5	301	5 Q9V9F4	Q9V9F4 drosophila

17	141	22.3	237	4 Q8NC69	Q8NC69 homo sapien
18	140.5	22.3	329	4 Q96SA1	Q96SA1 homo sapien
19	140.5	22.3	329	4 Q8WZ19	Q8WZ19 homo sapien
20	140.5	22.3	329	11 Q7TQ24	Q7TQ24 rattus norv
21	139	22.0	298	10 Q9SE95	Q9SE95 arabidopsis
22	139	22.0	315	11 Q922M3	Q922M3 mus musculus
23	139	22.0	435	4 Q9P2M9	Q9P2M9 homo sapien
24	138.5	21.9	310	4 Q96SU0	Q96SU0 homo sapien
25	138.5	21.9	313	4 Q9H3F6	Q9H3F6 homo sapien
26	138.5	21.9	315	11 Q7TFL3	Q7TFL3 rattus norv
27	136	21.6	234	4 Q96N73	Q96N73 homo sapien
28	133	21.1	222	11 Q8C004	Q8C004 mus musculus
29	132.5	21.0	329	4 Q96P93	Q96P93 homo sapien
30	132	20.9	225	4 Q3BQ13	Q3BQ13 homo sapien
31	132	20.9	225	4 Q8LMO6	Q8LMO6 oryza sativ
32	130	20.6	333	4 Q8XUN2	Q8XUN2 homo sapien
33	129.5	20.5	316	11 Q7TNY1	Q7TNY1 rattus norv
34	127.5	20.2	156	11 Q8CBQ4	Q8CBQ4 mus musculus
35	127.5	20.2	325	4 Q96CX2	Q96CX2 homo sapien
36	126.5	20.0	352	5 Q86FF1	Q86FF1 schistosoma
37	125.5	19.9	316	11 Q70479	Q70479 mus musculus
38	125.5	19.9	316	11 Q8BZK5	Q8BZK5 mus musculus
39	125	19.8	259	4 Q8WVF5	Q8WVF5 homo sapien
40	125	19.8	259	11 Q9C7K4	Q9C7K4 mus musculus
41	125	19.8	259	11 Q9D7X1	Q9D7X1 mus musculus
42	124	19.7	259	11 Q8CCQ3	Q8CCQ3 mus musculus
43	122	19.3	283	4 Q96SI1	Q96SI1 homo sapien
44	121	19.2	283	11 Q8K0B1	Q8K0B1 mus musculus
45	121	19.2	292	11 Q8C7J6	Q8C7J6 mus musculus

ALIGNMENTS

RESULT 1

ID	Q81VR0	PRELIMINARY;	PRT;	288 AA.
AC	Q81VR0;			
DT	01-MAR-2003 (TRENBLrel. 23, Created)			
DT	01-MAR-2003 (TRENBLrel. 23, Last sequence update)			
DT	01-OCT-2003 (TRENBLrel. 25, Last annotation update)			
DE	Hypothetical protein FLJ32069.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Brain;			
RA	Strausberg R.;			
RL	Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.			
DR	EMBL; BC042482; AAH42482.1; -			
DR	GO; GO:0016020; C:membrane; IEA.			
DR	GO; GO:0008076; C:voltage-gated potassium channel complex; IEA.			
DR	GO; GO:0005515; P:protein binding; IEA.			
DR	GO; GO:0005249; P:voltage-gated potassium channel activity; IEA.			
DR	GO; GO:0006843; P:potassium ion transport; IEA.			
DR	InterPro; IPR000210; BTB_POZ.			
DR	InterPro; IPR003131; K_tetra.			
DR	Pfam; PF02214; K_tetra; 1.			
DR	SMART; SM00225; BTB; 1.			
KW	Hypothetical protein.			
SQ	SEQUENCE 288 AA; 32945 MW; 1D1F618CD5E45940 CRC64;			

Query Match 88.8%; Score 560.5; DB 4; Length 288;
Best Local Similarity 91.7%; Pred. No. 6.8e-53;
Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

QY	1	MVVVTGPRDPRRRQDGMSSDAEDDDLEPATPTATQAGHALPLLPQEPFVPLNIGCA 60	
DB	1	MVVVTGPRDPRRRQDGMSSDAEDDDLEPATPTATQAGHALPLLPQEPFVPLNIGCA 60	
QY	61	HFTTTLSTLRCYEDTMLAAMFSGRHYIPTDSEGRFYIDRDGTHFGYVSPSTNFWVLGAD 120	

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 8, 2004, 10:12:49 ; Search time 39 Seconds
(without alignments)
160.216 Million cell updates/sec

Title: US-10-024-579-5
Perfect score: 631
Sequence: 1 MVVTGRRPDRSRQDGAMSS.....GTHFGVYSPSTINPVVLGAD 120

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	125.5	19.9	316	1	TNP1_HUMAN
2	98.5	15.6	647	1	KCD1_HUMAN
3	98.5	15.6	651	1	KCD1_MOUSE
4	91	14.4	265	1	Y176_HUMAN
5	88.5	14.0	602	1	CIK5_RAT
6	85	13.5	655	1	KCD3_HUMAN
7	85	13.5	655	1	KCD3_MOUSE
8	85	13.5	655	1	KCD3_RABIT
9	85	13.5	655	1	KCD3_EAT
10	85	13.5	656	1	CIK5_DROME
11	84.5	13.4	602	1	CIK5_MOUSE
12	83.5	13.2	613	1	CIK5_HUMAN
13	82.5	13.1	490	1	CIK1_DROME
14	82.5	13.1	499	1	CIK2_HUMAN
15	81	12.8	630	1	KCD2_HUMAN
16	81	12.8	630	1	KCD2_MOUSE
17	81	12.8	630	1	KCD2_RABIT
18	81	12.8	630	1	KCD2_EAT
19	79	12.5	525	1	CIK3_RAT
20	79	12.5	2517	1	NCR2_HUMAN
21	78.5	12.4	495	1	CIK1_MOUSE
22	78.5	12.4	495	1	CIK1_RAT
23	78.5	12.4	499	1	CIK2_MOUSE
24	77.5	12.3	495	1	CIK1_HUMAN
25	76	12.0	523	1	CIK3_HUMAN
26	74.5	11.8	499	1	CIK2_XENLA
27	74.5	11.8	601	1	CIK5_MUSPPF
28	73	11.6	528	1	CIK3_MOUSE
29	73	11.6	529	1	CIK6_HUMAN
30	72	11.4	598	1	CIK5_RABIT
31	71	11.3	653	1	CIK4_HUMAN
32	70.5	11.2	922	1	DNL3_HUMAN
33	69.5	11.0	894	1	RRN6_YEAST

34 69.5 11.0 1114 1 SULL_DROME
35 69 10.9 618 1 ORC2_DROME
36 69 10.9 806 1 DMSA_HAEN
37 68.5 10.9 360 1 POS1_BOVIN
38 68.5 10.9 654 1 CIK4_MOUSE
39 68.5 10.9 812 1 AXN2_BRARE
40 68 10.8 613 1 TX18_MOUSE
41 67.5 10.7 611 1 PES4_YEAST
42 67.5 10.7 634 1 CIK4_MUSPPF
43 67 10.6 360 1 POS1_PIG
44 67 10.6 2472 1 NCR2_MOUSE
45 66.5 10.5 530 1 CIK6_RAT

ALIGNMENTS

RESULT 1
TNP1_HUMAN STANDARD; PRT; 316 AA.
AC Q13829;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, last sequence update)
DT 10-OCT-2003 (Rel. 42, last annotation update)
DE Tumor necrosis factor, alpha-induced protein 1, endothelial (B12 protein).
DE TNFAIP1 OR EDPI.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Endothelial cells;
RX MEDLINE=92112779; PubMed=1370465;
RA Wolf F.W., Marks R.M., Sarma V., Byers M.G., Katz R.W., Shows T.B., Dixit V.K.;
RA "Characterization of a novel tumor necrosis factor-alpha-induced endothelial primary response gene.";
RT J. Biol. Chem. 267:1317-1326(1992).
RN [2]
RP SEQUENCE FROM N.A.
RA Rieder M.J., Armet T.Z., Carrington D.P., Chung M.-W., Lee K.L., Poel C.L., Toth E.J., Yi Q., Nickerson D.A.;
RN Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RX MEDLINE=22388257; PubMed=12477932;
RA Klausner R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.C., Krzyzinski M.I., Skalek U., Smalls D.E., Scheraga A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.";
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -I- INDUCTION: By TNF-alpha, interleukin-1 beta and lipopolysaccharide (LPS).
CC -I- SIMILARITY: Contains 1 BTB/POZ domain.

QY 51 EVVPLNIGGAHFTTRLSTLRVCYEDTMLAMPFSGRHYIPTDSEGRYFIDRDGTHFG----- 105

Result No.	Score	Query Match	Length	DB	ID	Description
1	125.5	19.9	348	2	A41784	tumor necrosis fac
2	111	17.6	190	2	T26019	hypothetical prote
3	106	16.8	220	2	T23066	hypothetical prote
4	103.5	16.4	373	2	T28685	hypothetical prote
5	98.5	15.6	651	2	A39372	potassium channel
6	92	14.6	670	2	T32221	hypothetical prote
7	90	14.3	643	2	S00480	potassium channel
8	88.5	14.0	602	2	JH0166	potassium voltage-
9	85	13.5	656	2	JH0193	potassium channel
10	84.5	13.4	304	2	S02284	potassium channel
11	84.5	13.4	514	2	C49507	potassium channel
12	84.5	13.4	602	2	A49507	potassium channel
13	83.5	13.2	460	2	T27759	hypothetical prote
14	83.5	13.2	597	2	S51212	BAX5 protein - bov
15	82.5	13.1	476	2	S21144	potassium channel
16	82.5	13.1	490	2	A35312	potassium channel
17	82.5	13.1	499	2	I77466	potassium channel
18	81	12.8	630	2	JU0271	voltage-sensitive
19	79	12.5	525	2	A49531	potassium channel
20	79	12.5	1495	2	S60255	transcription co-r
21	78.5	12.4	495	2	A40090	potassium channel
22	78.5	12.4	495	2	B39113	potassium channel
23	78.5	12.4	499	2	I84204	potassium channel
24	78.5	12.4	499	2	A33814	potassium channel
25	77.5	12.3	134	2	T32065	hypothetical prote
26	77.5	12.3	208	2	T25973	hypothetical prote
27	77.5	12.3	495	2	I57680	potassium channel
28	77.5	12.3	613	2	A56031	potassium channel
29	77	12.2	523	2	A38101	potassium channel

US-10-056-884-5
Query Match 23.9%; Score 150.5; DB 14; Length 228;
Best Local Similarity 49.2%; Pred. No. 7.6e-09;
Matches 29; Conservative 12; Mismatches 17; Indels 1; Gaps 1;
Qy 50 PEVPLNIGGAHPTTLRCYEDTDLAAMF-SGRHYIPTDSEGRYFIDRDGTHFGYV 107
Db 2 PEIILNAGVGSYTTTLATLLQDKSTLLAEFLFGEGRSLANDSKGRYFLDRDGVLFYI 60
RESULT 9
US-10-080-980-3
Sequence 3, Application US/10080980
Publication No. US20030036115A1
GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUB
TITLE OF INVENTION: K+beta6, EXPRESSED HIGHLY IN THE SMALL INTESTINE
FILE REFERENCE: D0121 NP
CURRENT APPLICATION NUMBER: US/10/080,980
CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 60/270,132
PRIOR FILING DATE: 2001-02-21
PRIOR APPLICATION NUMBER: US 60/278,953
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 74
SOFTWARE: Patent in version 3.0
SEQ ID NO 3
LENGTH: 228
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-10-080-980-3
Query Match 23.9%; Score 150.5; DB 14; Length 228;
Best Local Similarity 49.2%; Pred. No. 7.6e-09;
Matches 29; Conservative 12; Mismatches 17; Indels 1; Gaps 1;
Qy 50 PEVPLNIGGAHPTTLRCYEDTDLAAMF-SGRHYIPTDSEGRYFIDRDGTHFGYV 107
Db 2 PEIILNAGVGSYTTTLATLLQDKSTLLAEFLFGEGRSLANDSKGRYFLDRDGVLFYI 60
RESULT 10
US-10-086-156-2
Sequence 2, Application US/10086156
Publication No. US20030054989A1
GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SU
TITLE OF INVENTION: K+beta4 and K+betams
FILE REFERENCE: D0115NP
CURRENT APPLICATION NUMBER: US/10/086,156
CURRENT FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/272,190
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 60/274,258
PRIOR FILING DATE: 2001-03-07
NUMBER OF SEQ ID NOS: 98
SOFTWARE: Patent in version 3.0
SEQ ID NO 2
LENGTH: 351
TYPE: PRT
ORGANISM: homo sapiens
US-10-086-156-2
Query Match 23.6%; Score 149; DB 14; Length 351;
Best Local Similarity 34.2%; Pred. No. 2e-08;
Matches 40; Conservative 17; Mismatches 40; Indels 20; Gaps 3;
Qy 3 VVTCREPDSPRRQDGMSSSDAS---DDELPATPTATQAGHALPQLPQEPPEVPLNIG 58
Db 54 VMGRDKSVTHGTGVQLVSDTRFSCREGLLPATQSPAMS-----DPTILNVG 101

Qy 59 GAHFTTLRLCYEDTDLAAMFSGRHYIPTDSEGRYFIDRDGTHFGYVSPSTINFV 115
Db 102 GKUFTTSLATLTSFPDMLGAMFSGKMPYKRSQGNCFIDRDGKVFYI---LNFL 154
RESULT 11
US-10-296-115-1392
Sequence 1392, Application US/10296115
Publication No. US20040053248A1
GENERAL INFORMATION:
APPLICANT: Hyseq Inc
TITLE OF INVENTION: No. US20040053248A1e1 Nucleic Acids and Polypeptides
FILE REFERENCE: 784PCT
CURRENT APPLICATION NUMBER: US/10/296,115
CURRENT FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: US09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US09/552,317
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 1478
SEQ ID NO 1392
LENGTH: 282
TYPE: PRT
ORGANISM: Homo sapiens
US-10-296-115-1392
Query Match 23.3%; Score 147; DB 12; Length 282;
Best Local Similarity 38.6%; Pred. No. 2.5e-08;
Matches 34; Conservative 14; Mismatches 24; Indels 16; Gaps 2;
Qy 28 LEPATPTATQAGHALPQLPQEPPEVPLNIGGAHPTTLRLCYEDTDLAAMFSGRHYI 87
Db 15 LLPATQSPAMS-----DPTILNVGKLYTSLATLTSFPDMLGAMFSGKMP 62
Qy 88 PTDSEGRYFIDRDGTHFGYVSPSTINFV 115
Db 63 KRDSQGNCFIDRDGKVFYI---LNFL 86
RESULT 12
US-10-086-156-12
Sequence 12, Application US/10086156
Publication No. US20030054989A1
GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-S-
TITLE OF INVENTION: K+beta4 and K+betams
FILE REFERENCE: D0115NP
CURRENT APPLICATION NUMBER: US/10/086,156
CURRENT FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/272,190
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 60/274,258
PRIOR FILING DATE: 2001-03-07
NUMBER OF SEQ ID NOS: 98
SOFTWARE: Patent in version 3.0
SEQ ID NO 12
LENGTH: 99
TYPE: PRT
ORGANISM: homo sapiens
US-10-086-156-12
Query Match 23.1%; Score 146; DB 14; Length 99;
Best Local Similarity 47.6%; Pred. No. 8.3e-09;
Matches 30; Conservative 11; Mismatches 18; Indels 4; Gaps 1;
Qy 53 VPLNIGGAHPTTLRLCYEDTDLAAMFSGRHYIPTDSEGRYFIDRDGTHFGYVSPSTI 112
Db 3 ITLNVGKLYTSLATLTSFPDMLGAMFSGKMPYKRSQGNCFIDRDGKVFYI----L 58
Qy 113 NFV 115
|||

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; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34673
; LENGTH: 56
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC006001.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.6
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 12
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 5.4
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 7.3
; OTHER INFORMATION: EXPRESSED IN BT47A, SIGNAL = 14
; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 8.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
; OTHER INFORMATION: EST HUMAN HIT: A1674184.1, EVALU8 4.00e-28
; OTHER INFORMATION: SWISSPROT HIT: Q13829, EVALU8 9.00e-07
; US-09-864-761-34673

Query Match      48.3%; Score 305; DB 9; Length 56;
Best Local Similarity 100.0%; Pred. No. 2.4e-27;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      49  FPEVPLNIGGAHFTRLSTLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHP 104
Db      1  FPEVPLNIGGAHFTRLSTLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHP 56

RESULT 6
US-10-086-156-39
; Sequence 39; Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUB
; TITLE OF INVENTION: K-betaM4 and K-betaM5
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/272,190
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/274,258
```

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; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 39
; LENGTH: 96
; TYPE: PRT
; ORGANISM: homo sapiens
; US-10-086-156-39

Query Match      47.9%; Score 302.5; DB 14; Length 96;
Best Local Similarity 85.7%; Pred. No. 9.3e-27;
Matches 60; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

Qy      51  KVVPLNIGGAHFTRLSTLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHGYVSPS 110
Db      1  KVVPLNIGGAHFTRLSTLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHGYVSPS 57

Qy      111 TINFVLVAGD 120
Db      58 -LNF-LRSGD 65

RESULT 7
US-10-296-115-757
; Sequence 757; Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 757
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-296-115-757

Query Match      34.9%; Score 220.5; DB 12; Length 130;
Best Local Similarity 78.3%; Pred. No. 3.5e-17;
Matches 47; Conservative 1; Mismatches 11; Indels 1; Gaps 1;

Qy      1  MVVVTGRRPDSRRDGMSSSDAEDDFLEPATPTATGAGHAL-PLLQPEFVVPLNIGG 59
Db      23  MVVVTGRRPDSRRDGMSSSDAEDDFLEPATPTATGAGHALPAAATGSLRFLPITSEG 82

RESULT 8
US-10-056-884-5
; Sequence 5; Application US/10056884
; Publication No. US20030032786A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU
; TITLE OF INVENTION: K-betaM2
; FILE REFERENCE: D0076 NP
; CURRENT APPLICATION NUMBER: US/10/056,884
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 60/263,872
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: US 60/269,794
; PRIOR FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
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US-10-094-749-2684
; Sequence 2684, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKI, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2684
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2684

Query Match      88.8%; Score 560.5; DB 15; Length 289;
Best Local Similarity 91.7%; Pred. No. 1.1e-55;
Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

QY 1 M V V T G R P D S R Q D G A M S S D A E D D F L E P A T T A T Q A G H A L P L L P Q E P P V P L N I G G A 60
DB 1 M V V T G R P D S R Q D G A M S S D A E D D F L E P A T T A T Q A G H A L P L L P Q E P P V P L N I G G A 60
QY 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120
DB 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120
QY 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120
DB 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120

RESULT 3
US-10-086-156-24
; Sequence 24, Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT cDNAs
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/272,190
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/274,258
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 24
; LENGTH: 343
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-086-156-24

US-10-094-749-2684
; Sequence 2684, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKI, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2684
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2684

Query Match      88.8%; Score 560.5; DB 15; Length 289;
Best Local Similarity 91.7%; Pred. No. 1.1e-55;
Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

QY 1 M V V T G R P D S R Q D G A M S S D A E D D F L E P A T T A T Q A G H A L P L L P Q E P P V P L N I G G A 60
DB 1 M V V T G R P D S R Q D G A M S S D A E D D F L E P A T T A T Q A G H A L P L L P Q E P P V P L N I G G A 60
QY 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120
DB 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120
QY 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120
DB 61 H P T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V S P S T I N F V V L A G D 120

RESULT 3
US-10-086-156-24
; Sequence 24, Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT cDNAs
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/272,190
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/274,258
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 24
; LENGTH: 343
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-086-156-24

US-10-024-579-7
; Sequence 7, Application US/10024579
; Publication No. US20020119522A1
; GENERAL INFORMATION:
; APPLICANT: Fiddle, Carl Johan
; APPLICANT: Gerhardt, Brenda
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. US20020119522A1 Human Ion Channel-Related Proteins
; FILE REFERENCE: LEX-0274-USA
; CURRENT APPLICATION NUMBER: US/10/024,579
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 106
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-024-579-7

Query Match      61.0%; Score 385; DB 13; Length 106;
Best Local Similarity 97.3%; Pred. No. 3.7e-36;
Matches 71; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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DB 48 E P E V V P L N I G A H T T R L S T L R C Y E D T M L A A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V V 107
QY 108 S P S T I N F V V L A G D 120
DB 94 S P S T I N F V V L A G D 106

RESULT 5
US-09-864-761-34673
; Sequence 34673, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aemica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 8, 2004, 10:50:19 ; Search time 959 Seconds
(without alignments)
35.204 Million cell updates/sec

Title: US-10-024-579-5
Perfect score: 631
Sequence: 1 MVVVGEPDSRRDGMSS.....GTHFGYVSPSTINPVLGAD 120

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1155919 seqs, 281338677 residues

Total number of hits satisfying chosen parameters: 1155919

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications AA:*
- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
 - 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
 - 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
 - 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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 - 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
 - 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
 - 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
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 - 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
 - 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
 - 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
 - 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
 - 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
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 - 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	631	100.0	120	13	US-10-024-579-5
2	560.5	88.8	289	15	US-10-094-749-2684
3	560.5	88.8	343	14	US-10-086-156-24
4	385	61.0	106	13	US-10-024-579-7
5	305	48.3	56	9	US-09-864-761-34673
6	302.5	47.9	96	14	US-10-086-156-39
7	220.5	34.9	130	12	US-10-296-115-757
8	150.5	23.9	228	14	US-10-056-884-5
9	150.5	23.9	228	14	US-10-080-980-3
10	149	23.6	351	12	US-10-086-156-2
11	147	23.3	282	12	US-10-296-115-1392
12	146	23.1	99	14	US-10-040-805-3
13	146	23.1	237	14	US-10-056-884-4
14	146	23.1	237	14	US-10-056-884-4
15	146	23.1	237	14	US-10-080-980-7

16	146	23.1	237	14	US-10-080-980-9	Sequence 9, Appli
17	146	23.1	237	14	US-10-121-746-25	Sequence 25, Appli
18	146	23.1	237	14	US-10-086-156-3	Sequence 2, Appli
19	146	23.1	237	14	US-10-071-458-6	Sequence 6, Appli
20	146	23.1	237	14	US-10-234-951A-3	Sequence 3, Appli
21	146	23.1	237	14	US-10-264-171-3	Sequence 3, Appli
22	143.5	22.7	321	12	US-10-425-114-65440	Sequence 65440, A
23	142	22.5	301	14	US-10-056-884-67	Sequence 67, Appli
24	142	22.5	301	14	US-10-080-980-65	Sequence 65, Appli
25	142	22.5	301	14	US-10-086-156-27	Sequence 27, Appli
26	142	22.5	301	14	US-10-071-458-28	Sequence 28, Appli
27	142	22.5	301	14	US-10-234-951A-63	Sequence 63, Appli
28	140.5	22.3	329	14	US-10-287-218-18	Sequence 18, Appli
29	139	22.0	301	12	US-10-276-774-2342	Sequence 2342, Ap
30	139	22.0	428	14	US-10-056-884-2	Sequence 4, Appli
31	139	22.0	435	14	US-10-080-980-4	Sequence 2635, Ap
32	138.5	21.9	146	12	US-10-276-774-2635	Sequence 26, Appli
33	138.5	21.9	313	14	US-10-086-156-26	Sequence 26, Appli
34	138.5	21.9	322	15	US-10-094-749-2845	Sequence 879, App
35	136	21.6	175	9	US-09-925-299-879	Sequence 879, App
36	136	21.6	175	10	US-09-925-299-879	Sequence 879, App
37	136	21.6	197	14	US-10-106-698-4675	Sequence 4675, Ap
38	136	21.6	234	15	US-10-094-749-2264	Sequence 2264, Ap
39	136	21.6	255	14	US-10-040-805-2	Sequence 2, Appli
40	136	21.6	255	14	US-10-168-651-4	Sequence 4, Appli
41	136	21.6	255	14	US-10-264-171-2	Sequence 2, Appli
42	134	21.2	302	12	US-10-424-599-196818	Sequence 196818,
43	132	20.9	225	14	US-10-086-156-25	Sequence 25, Appli
44	127.5	20.2	325	14	US-10-080-980-2	Sequence 2, Appli
45	125	19.8	258	14	US-10-121-746-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1
US-10-024-579-5
; Sequence 5, Application US/10024579
; Publication No. US20020119522A1
; GENERAL INFORMATION:
; APPLICANT: Friddle, Carl Johan
; APPLICANT: Gerhardt, Brenda
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. US20020119522A1 Human Ion Channel-Related Proteins
; TITLE OF INVENTION: and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0274-USA
; CURRENT APPLICATION NUMBER: US/10/024,579
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 120
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-024-579-5

Query Match	100.0%;	Score 631;	DB 13;	Length 120;
Best Local Similarity	100.0%;	Pred. No. 2.9e-64;		
Matches 120;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MVVVVGEPDSRRDGMSSDAEDDELEPATATATGAGHALPILPOEFPEVPLNIGGA	60	
Db	1	MVVVVGEPDSRRDGMSSDAEDDELEPATATATGAGHALPILPOEFPEVPLNIGGA	60	
Qy	61	HFTRTLSTLACYETMLAAMFSGRHYIPTDSEGRFYIDRDGTHFGYVSPSTINPVLGAD	120	
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RESULT 2

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; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5196
; LENGTH: 93
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-5196

Query Match      21.9%; Score 138.5; DB 4; Length 93;
Best Local Similarity 56.4%; Pred. No. 1.2e-09;
Matches 31; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 53 VPLNIGGAHFTTSLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHFGYV 107
DB 34 VKLNVGGALYITTMQTL-TKQDTMLKAMFSGRMEVLTDSGWTILDRGKHGTI 87

RESULT 3
US-09-336-643A-12
; Sequence 12, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 258
; TYPE: PRT
; ORGANISM: H. sapiens
US-09-336-643A-12

Query Match      19.8%; Score 125; DB 4; Length 258;
Best Local Similarity 40.6%; Pred. No. 2.3e-07;
Matches 26; Conservative 13; Mismatches 21; Indels 4; Gaps 1;

QY 52 VPLNIGGAHFTTSLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHFGYVSPST 111
DB 34 LMTLVGGYLYIKQTLTKYPTFLEGIYNGKILCPFDADGHYFIDRDGLLRHV---- 89

QY 112 INFV 115
DB 90 LNFL 93

RESULT 4
US-09-673-395A-155
; Sequence 155, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKI, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
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; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 155
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-673-395A-155

Query Match      18.8%; Score 118.5; DB 4; Length 289;
Best Local Similarity 36.7%; Pred. No. 1.7e-06;
Matches 33; Conservative 12; Mismatches 38; Indels 7; Gaps 3;

QY 29 EPATPTTA-TQAGHALPLLQPEPP--EYVPLNIGGAHFTTSLRCYEDTMLAAMFSGRH 85
DB 2 QPARPGMAAAATAAGVPSRGPPEVHLNVTGGRFSTSRQTLTWIPDSFPSSLLSGRI 61

QY 86 VIPTDSEGRYFIDRDGTHFGYVSPSTINFV 115
DB 62 STLKDETGAIFIDRDPTVFAPi-----LNFL 87

RESULT 5
US-09-336-643A-14
; Sequence 14, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 256
; TYPE: PRT
; ORGANISM: H. sapiens
; NAME/KEY: VARIANT
; LOCATION: (1)...(256)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-336-643A-14

Query Match      18.1%; Score 114; DB 4; Length 256;
Best Local Similarity 34.5%; Pred. No. 5.3e-06;
Matches 30; Conservative 16; Mismatches 35; Indels 6; Gaps 3;

QY 30 PATPTATQAGHALPLLQPEPPVPLNIGGAHFTTSLRCYEDTMLAAMFSGRH1PT 89
DB 10 PASPLXNQ-GIPTPAQLTKSNAPVHIDVGGHMYTSSLATLTKYPESRIGRLPDGTEPIVL 68

QY 90 DS-EGRYFIDRDGTHFGYVSPSTINFV 115
DB 69 DSLKQHYFIDRDGQMFYI-----LNFL 91

RESULT 6
US-09-166-350-12
; Sequence 12, Application US/09166350A
; Patent No. 6440663
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 8, 2004, 10:48:29 ; Search time 44 Seconds
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140.798 Million cell updates/sec

Title: US-10-024-579-5

Perfect score: 631

Sequence: 1 MVVTGRRPDRRQDGMSS.....GTHRGVYSPSTINPVLGAD 120

Scoring table: BLOSUM62

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query		DB ID	Description
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5	114	18.1	256	4	US-09-336-643A-14
6	107	17.0	812	4	US-09-166-350-12
7	90	14.3	162	2	US-08-606-143-44
8	88.5	14.0	389	4	US-09-336-643A-27
9	85.5	13.5	646	4	US-09-336-643A-10
10	85	13.5	616	4	US-09-275-252A-4
11	85	13.5	636	4	US-09-142-791A-2
12	85	13.5	636	4	US-09-142-791A-6
13	85	13.5	636	4	US-09-178-109-4
14	85	13.5	655	4	US-09-142-791A-4
15	85	13.5	655	4	US-09-178-109-2
16	84.5	13.4	111	4	US-10-162-012-11
17	81.5	12.9	152	2	US-08-606-143-4
18	81	12.8	159	2	US-08-606-143-45
19	79	12.5	1495	4	US-08-522-726B-1
20	79	12.5	1495	4	US-09-337-384-1
21	77.5	12.3	495	4	US-09-275-252A-5
22	76	12.0	152	2	US-08-606-143-13
23	74.5	11.8	446	4	US-10-162-012-8
24	73	11.6	528	2	US-08-522-152-2
25	71	11.3	150	2	US-08-606-143-29
26	71	11.3	861	4	US-09-784-316-2
27	70.5	11.2	922	2	US-08-464-402-2

28	70.5	11.2	922	3	US-09-054-775C-2	Sequence 2, Appli
29	70	11.1	152	2	US-08-606-143-21	Sequence 21, Appl
30	69.5	11.0	152	2	US-08-606-143-6	Sequence 6, Appli
31	69.5	11.0	152	2	US-08-606-143-9	Sequence 9, Appli
32	69.5	11.0	152	2	US-08-606-143-12	Sequence 12, Appl
33	69.5	11.0	152	2	US-08-606-143-32	Sequence 32, Appl
34	69.5	11.0	155	2	US-08-606-143-8	Sequence 8, Appli
35	69.5	11.0	155	2	US-08-606-143-23	Sequence 19442, A
36	69	10.9	198	4	US-09-252-991A-19442	Sequence 7, Appli
37	68.5	10.9	152	2	US-08-606-143-7	Sequence 16, Appl
38	68.5	10.9	152	2	US-08-606-143-16	Sequence 25, Appl
39	68.5	10.9	152	2	US-08-606-143-25	Sequence 28, Appl
40	68.5	10.9	152	2	US-08-606-143-28	Sequence 30, Appl
41	68.5	10.9	152	2	US-08-606-143-30	Sequence 8, Appli
42	68	10.8	499	4	US-09-336-643A-8	Sequence 10, Appl
43	67.5	10.7	152	2	US-08-606-143-10	Sequence 15, Appl
44	67.5	10.7	152	2	US-08-606-143-15	Sequence 20, Appl
45	67.5	10.7	152	2	US-08-606-143-20	

ALIGNMENTS

RESULT 1
US-09-336-643A-25
; Sequence 25, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336.643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 237
; TYPE: PRT
; ORGANISM: H. sapiens
US-09-336-643A-25

Query Match 23.1%; Score 146; DB 4; Length 237;
Best Local Similarity 50.8%; Pred.No. 5.1e-10;
Matches 32; Conservative 7; Mismatches 20; Indels 4; Gaps 1;

Qy	53	VPLNIGGAHFTTLRLCYEDTMLAAMFSGRHVYIPTDSEGRYFIDRGTGTHGVYSPSTI	112
Db	14	VTLVNGGHLYTTSITLTITRYPDSMLGAMFGDFTARDPQGYFIDRDGPLFRVY---	69
Qy	113	NFV 115	
Db	70	NFL 72	

RESULT 2
US-09-621-976-5196
; Sequence 5196, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.

CC collection of detectably labeled nucleic acids derived from human lung
CC mRNA, and (b) measuring the label detectably bound to each probe of the
CC array; identifying exons in a eukaryotic genome, comprising (a)
CC algorithmically predicting at least one exon from genomic sequences of
CC the eukaryote; and (b) detecting specific hybridisation of detectably
CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
CC having a fragment identical to the predicted exon, the probe is included
CC in the above mentioned microarray; assigning exons to a single gene,
CC comprising (a) identifying exons from genomic sequence by the method
CC above and (b) measuring the expression of each of the exons in several
CC tissues and/or cell types using hybridisation to a single exon
CC microarrays having a probe with the exon, where a common pattern of
CC expression of the exons in the tissues and/or cell types indicates that
CC the exons should be assigned to a single gene; a peptide comprising one
CC of 12011 sequences, mentioned in the specification, or encoded by the
CC probes/open reading frames (ORF). The probes are used for gene expression
CC analysis; and for identifying exons in a gene, particularly using human
CC lung derived mRNA and for the study of lung diseases such as asthma, lung
CC cancer, chronic obstructive pulmonary disease (COPD), interstitial lung
CC disease (ILD), familial idiopathic pulmonary fibrosis, neurofibromatosis,
CC tuberous sclerosis, Gaucher's disease, Niemann-Pick disease, Hermansky-
CC Pudlak syndrome, sarcoidosis, pulmonary haemosiderosis, pulmonary
CC histiocytosis, lymphangioleiomyomatosis, pulmonary alveolar proteinosis,
CC Karagenar syndrome, fibrocystic pulmonary dysplasia, primary ciliary
CC dyskinesia, pulmonary hypertension and hyaline membrane disease. The
CC present sequence is a peptide/protein encoded by a single exon probe of
CC the invention. Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 56 AA;

Query Match 48.3%; Score 305; DB 5; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 49 PPEVPLNIGCAFTTSLRCLCYEDTLMAMFSGRHYIPTDSGGRYFIDRDGTHF 104
DB 1 PPEVPLNIGCAFTTSLRCLCYEDTLMAMFSGRHYIPTDSGGRYFIDRDGTHF 56

RESULT 15
AAM25242
ID AAM25242 standard; protein; 130 AA.
XX
XX AAM25242;
AC
DT 16-OCT-2001 (first entry)
XX
XX Human protein sequence SEQ ID NO:757.
XX
XX Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
KW antiinflammatory; antirheumatic; antiarthritic; immunosuppressive;
KW antibacterial; endocrine; cardiant; central nervous system; virucide;
KW anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia;
KW antiaggregant; haemostatic; vulnerary; antitumor; osteopathic; eczema;
KW dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic;
KW neuroprotective; antipressant; nootropic; antiparkinsonian; infection;
KW immunostimulant; gene therapy; antisease therapy; vaccine; inflammation;
KW antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
KW cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
KW genetic disease; haematopoietic disorder; platelet disorder; asthma;
KW thrombocytopaenia; osteoporosis; severe combined immunodeficiency;
KW allergic rhinitis; diabetes; multiple sclerosis; depression;
KW Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
KW neurological disorder.
XX
XX Homo sapiens.
XX
XX WO200153455-A2.
XX
XX 26-JUL-2001.
XX
XX

22-DEC-2000; 2000WO-US035017.
XX
XX 21-DEC-1999; 99US-00471275.
PR 21-JAN-2000; 2000US-00488725.
XX 25-APR-2000; 2000US-00552317.
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Drmanac RT;
PI WPI; 2001-457603/49.
XX N-PSDB; AAM99183.
XX
XX Isolated human polynucleotides encoding polypeptides, useful for the
PT treatment and diagnosis of e.g. cancer, ulcers and HIV infection.
XX
XX Claim 20; Page 182; 1217pp; English.
XX
XX AAM99166 to AAM99904 encode the human proteins given in AAM25225 to
CC AAM25963. The proteins can have activities based on the tissues and cells
CC they are expressed in, such as: antiinflammatory; antirheumatic;
CC antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant;
CC central nervous system; virucide; anti-HIV; fungicide; antimutagen;
CC cardiovascular; antianaemic; antiasthmatic; haemostatic; vulnerary;
CC antitumor; osteopathic; dermatological; antiallergic; antidiabetic;
CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
CC encoding them can be used in gene therapy, antisense therapy and vaccine
CC production. The proteins and polynucleotides are useful for screening for
CC agonists or antagonists of a protein and for the treatment and diagnosis
CC of disorders associated with the activity of a protein e.g. inflammation,
CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
CC anaemia, platelet disorders, thrombocytopaenia, wounds, ulcers,
CC osteoporosis, severe combined immunodeficiency, eczema, allergic
CC rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
CC neurological disorders
XX
XX Sequence 130 AA;

Query Match 34.9%; Score 220.5; DB 4; Length 130;
Best Local Similarity 78.3%; Pred. No. 9e-18;
Matches 47; Conservative 1; Mismatches 11; Indels 1; Gaps 1;
QY 1 MVVVTGREPDSRRQDGMSSDAEDDFLEPATPTATQAGHAL-PLLPQEPFVWVPLNIGG 59
DB 23 MVVVTGREPDSRRQDGMSSDAEDDFLEPATPTATQAGHALPPAATGSLFLPLTSEG 82
Search completed: June 8, 2004, 10:50:13
Job time : 100 secs

CC measuring human gene expression in a sample derived from human adult
CC liver, comprising one of 13199 defined nucleotide sequences given in the
CC specification (or complements/ fragments). The probe hybridises at high
CC stringency to a nucleic acid molecule expressed in the human adult liver.
CC (1) may be used for predicting, measuring and displaying gene expression
CC in samples derived from human adult liver. The genes identified may be
CC involved in genetic liver diseases such as cirrhosis,
CC hyperlipoproteinaemia, hyperlipidaemia and hypercholesterolaemia which is
CC associated with coronary heart disease. ABG47348-ABG59930 represent human
CC liver single exon encoded peptides of the invention. Note: The sequence
CC information for this patent does not appear in the printed specification
CC but was obtained in electronic format directly from WIPO at
CC [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)
XX
SO Sequence 56 AA:

	Query Match	Best Local Similarity	48.3%	Score 305;	DB 4;	Length 56;
	Matches 56;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
QY	49	PFEVPLNIGCAHFTTTLSTLRCYEDWTAAAMFSGRRYIPTDSGRYFIDRDGTHF	104			
nb	1	PFEVPLNIGCAHFTTTLSTLRCYEDWTAAAMFSGRRYIPTDSGRYFIDRDGTHF	56			

```

CC inflammatory diseases of the breast, fibrocytic changes, proliferative
CC breast disease and non-carcinoma tumours. Note: The sequence data for
CC this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 56 AA;
Query Match 48.3%; Score 305; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 49 PEWVPLNTGGAHFTTSLTLCRYEYTMGLAAMPSGRHYIPTDSEGRYFIDRDGTHP 104
| | | | |
DB 1 PEWVPLNTGGAHFTTSLTLCRYEYTMGLAAMPSGRHYIPTDSEGRYFIDRDGTHP 56
| | | | |

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RESULT 14
 ABG36762
 ID ABG36762 standard; peptide; 56 AA.
 XX
 AC ABG36762;
 XX
 XX
 DT 19-AUG-2002 (first entry)
 TT
 DE Human peptide encoded by genome-derived single exon probe SEQ ID 26427.
 XX
 KW Human; single exon probe; asthma; lung cancer; COPD; ILD;
 KW chronic obstructive pulmonary disease; interstitial lung disease;
 KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
 KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
 KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
 KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagenar syndrome;
 KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
 KW primary ciliary dyskinesia; pulmonary hypertension;
 KW hyaline membrane disease.
 XX
 XX Homo sapiens.
 OS
 XX
 XX WO200186003-A2.
 PN
 XX
 XX 15-NOV-2001.
 PD
 XX
 XX 30-JAN-2001; 2001WO-US000665.
 XX
 XX 04-FEB-2000; 2000US-0180312P.
 XX
 XX 26-MAY-2000; 2000US-0207456P.
 PR
 XX 30-JUN-2000; 2000US-00608408.
 PR
 XX 03-SEP-2000; 2000US-00632366.
 PR
 XX 21-SEP-2000; 2000US-0234687P.
 PR
 XX 07-SEP-2000; 2000US-0236359P.
 PR
 XX 04-OCT-2000; 2000GE-00024263.
 XX
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 XX WFI; 2002-114183/15.
 XX
 XX Spatially-addressable set of single exon nucleic acid probes, used to
 PT measure gene expression in human lung samples.
 XX
 PS Claim 27: SEQ ID NO 26427; 634bp; English.

PS Claim 27; SEQ ID NO 11429; 322pp; English.

XX CC The invention relates to a spatially-addressable set of single exon
CC nucleic acid probes for measuring gene expression in a sample derived
CC from human lung comprising single exon nucleic acid probes having one of
CC 12614 nucleic acid sequences mentioned in the specification, or their
CC complements or the 12387 open reading frames derived from the 12614
CC probes. Also included are a microarray comprising the novel set of probes
CC ; the novel set of probes which hybridise at high stringency to a nucleic
CC acid expressed in the human lung; measuring gene expression in a sample
CC derived from human lung, comprising (a) contacting the array with a


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XX OS Homo sapiens.
XX PN WO200157276-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US0000668.
XX PR 04-FEB-2000; 2000US-0180312P.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 30-JUN-2000; 2000US-00608408.
XX PR 03-AUG-2000; 2000US-00632366.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.
XX PR 04-OCT-2000; 2000GB-00024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR WPI; 2001-488900/53.
XX PT Human genome-derived single exon nucleic acid probes useful for analyzing
XX PT Gene expression in human bone marrow.
XX PS Example 4; SEQ ID NO 27408; 658pp + Sequence Listing; English.
XX CC The present invention provides a number of single exon nucleic acid
XX CC probes which are derived from genomic sequences expressed in the human
XX CC bone marrow. They can be used to measure gene expression in bone marrow
XX CC samples, which may enable the improved diagnosis and treatment of cancers
XX CC such as lymphoma, leukaemia and myeloma. The present sequence is a
XX CC protein encoded by one of the probes of the invention
XX SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 FPEVPLNIGGAHFTTLLRCYEDTMAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
DB 1 FPEVPLNIGGAHFTTLLRCYEDTMAAMFSGRHYIPTDSEGRYFIDRDGTHF 56

RESULT 11
ID AAM54702 standard; protein; 56 AA.
XX AC AAM54702;
XX DT 05-NOV-2001 (first entry)
XX DE Human brain expressed single exon probe encoded protein SEQ ID NO: 26807.
XX KW Human; brain expressed exon; gene expression analysis; probe; microarray;
XX KW Alzheimer's disease; multiple sclerosis; schizophrenia; epilepsy; cancer.
XX OS Homo sapiens.
XX PN WO200157275-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US0000667.
XX PR 04-FEB-2000; 2000US-0180312P.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 30-JUN-2000; 2000US-00608408.
XX PR 03-AUG-2000; 2000US-00632366.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.

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PR 04-OCT-2000; 2000GB-00024263.
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR WPI; 2001-483446/52.
XX PT Single exon nucleic acid probes for analyzing gene expression in human
XX PT brains.
XX PS Example 4; SEQ ID NO 26807; 650pp + Sequence Listing; English.
XX CC The present invention provides a number of single exon nucleic acid
XX CC probes which are derived from genomic sequences expressed in the human
XX CC brain. They can be used to measure gene expression in brain cell samples,
XX CC which may enable the diagnosis and improved treatment of nervous system
XX CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
XX CC epilepsy and cancers. The present sequence is a protein encoded by one of
XX CC the probes of the invention
XX SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 FPEVPLNIGGAHFTTLLRCYEDTMAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
DB 1 FPEVPLNIGGAHFTTLLRCYEDTMAAMFSGRHYIPTDSEGRYFIDRDGTHF 56

RESULT 12
ID ABG48768 standard; peptide; 56 AA.
XX AC ABG48768;
XX DT 25-FEB-2003 (first entry)
XX DE Human liver peptide, SEQ ID NO 27416.
XX KW Human; liver; cirrhosis; hyperlipoproteinaemia; hyperlipidaemia;
XX KW hypercholesterolaemia; coronary heart disease.
XX OS Homo sapiens.
XX PN WO200157273-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US0000664.
XX PR 04-FEB-2000; 2000US-0180312P.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 30-JUN-2000; 2000US-00608408.
XX PR 03-AUG-2000; 2000US-00632366.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.
XX PR 04-OCT-2000; 2000GB-00024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR WPI; 2001-488898/53.
XX PT Human genome-derived single exon nucleic acid probes useful for analyzing
XX PT gene expression in human adult liver.
XX PS Claim 27; SEQ ID NO 27416; 658pp; English.
XX CC The invention relates to a single exon nucleic acid probe (SEN) (i) for

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ID ABB28752 standard; peptide; 56 AA.
 AC ABB28752;
 DT 01-FEB-2002 (first entry)
 XX
 XX Peptide #1403 encoded by breast cell single exon nucleic acid probe.
 XX Human; microarray; single exon probe; gene expression; breast; disease;
 XX cancer.
 XX Homo sapiens.
 OS
 XX WO200157271-A2.
 PN
 XX 09-AUG-2001.
 PD
 XX
 XX 30-JAN-2001; 2001WO-US000662.
 PF
 XX 04-FEB-2000; 2000US-0180312P.
 PR
 XX 26-MAY-2000; 2000US-0207456P.
 PR
 XX 30-JUN-2000; 2000US-00608408.
 PR
 XX 03-AUG-2000; 2000US-00632366.
 PR
 XX 21-SEP-2000; 2000US-0234687P.
 PR
 XX 27-SEP-2000; 2000US-0236359P.
 PR
 XX 04-OCT-2000; 2000GB-00024263.
 PR
 XX (MOL-) MOLECULAR DYNAMICS INC.
 PA
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 PI
 XX WPI; 2001-496933/54.
 DR
 XX New spatially-addressable set of single exon nucleic acid probes, useful
 PT for measuring gene expression in sample derived from human breast,
 PT comprises number of single exon nucleic acid probes.
 PT
 XX Claim 27; SEQ ID NO 11720; 327pp + Sequence Listing; English.
 PS
 XX The invention relates to a spatially-addressable set of single exon
 CC nucleic acid probes for measuring gene expression in a sample derived
 CC from human breast and Br 474 cells. The method involves contacting the
 CC probes with a collection of detectably labelled nucleic acids derived
 CC from mRNA of human breast, and then measuring the label bound to each
 CC probe of the microarray. The probes are useful for verifying the
 CC expression of regions of genomic DNA predicted to encode proteins. They
 CC are useful for gene discovery, and for determining predisposition and/or
 CC prognosing breast disease. Gene expression analysis is useful for
 CC assessing the toxicity of chemical agents on cells. The microarray of
 CC this invention presents a far greater diversity of probes for measuring
 CC gene expression, with far less bias than expressed sequence tag
 CC microarrays. The method is suitable for rapid production of functional
 CC information from genomic sequence. The present sequence is a peptide
 CC encoded by a single exon nucleic acid probe of the invention. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 56 AA;
 SQ
 Query Match 48.3%; Score 305; DB 4; Length 56;
 Best Local Similarity 100.0%; Pred. No. 3e-28;
 Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 49 FPEVPLNIGGAHPTTLRLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
 DB 1 FPEVPLNIGGAHPTTLRLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 56
 RESULT 9
 ABB19375
 ID ABB19375 standard; protein; 56 AA.
 XX

AC ABB19375;
 XX
 DT 23-JAN-2002 (first entry)
 XX
 XX Protein #1374 encoded by probe for measuring heart cell gene expression.
 XX Human; gene expression; heart; microarray; vascular system;
 XX cardiovascular disease; hypertension; cardiac arrhythmia;
 XX congenital heart disease.
 XX Homo sapiens.
 OS
 XX WO200157274-A2.
 PN
 XX 09-AUG-2001.
 PD
 XX
 XX 30-JAN-2001; 2001WO-US000666.
 PF
 XX 04-FEB-2000; 2000US-0180312P.
 PR
 XX 26-MAY-2000; 2000US-0207456P.
 PR
 XX 30-JUN-2000; 2000US-00608408.
 PR
 XX 03-AUG-2000; 2000US-00632366.
 PR
 XX 21-SEP-2000; 2000US-0234687P.
 PR
 XX 27-SEP-2000; 2000US-0236359P.
 PR
 XX 04-OCT-2000; 2000GB-00024263.
 PR
 XX (MOL-) MOLECULAR DYNAMICS INC.
 PA
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 PI
 XX WPI; 2001-488999/53.
 DR
 XX Single exon nucleic acid probes for analyzing gene expression in human
 PT hearts.
 PT
 XX Claim 15; SEQ ID NO 21145; 530pp; English.
 PS
 XX The present invention relates to single exon nucleic acid probes for
 CC measuring human gene expression in a sample derived from human heart (see
 CC ABA21535-ABA41305). The present sequence is a protein encoded by one such
 CC probe. The probes may be used for predicting, measuring and displaying
 CC gene expression in samples derived from the human heart via microarrays.
 CC By measuring gene expression, the probes are useful for predicting,
 CC diagnosing, grading, staging, monitoring and prognosing diseases of the
 CC human heart and vascular system e.g. cardiovascular disease,
 CC hypertension, cardiac arrhythmias and congenital heart disease. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences
 XX
 XX Sequence 56 AA;
 SQ
 Query Match 48.3%; Score 305; DB 4; Length 56;
 Best Local Similarity 100.0%; Pred. No. 3e-28;
 Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 49 FPEVPLNIGGAHPTTLRLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
 DB 1 FPEVPLNIGGAHPTTLRLCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 56
 RESULT 10
 AAM67102
 ID AAM67102 standard; protein; 56 AA.
 XX
 XX AAM67102;
 AC
 XX 06-NOV-2001 (first entry)
 DT
 XX Human bone marrow expressed probe encoded protein SEQ ID NO: 27408.
 XX Human; bone marrow expressed exon; gene expression analysis; probe;
 XX microarray; cancer; leukaemia; lymphoma; myeloma.

PT Human genome-derived single exon nucleic acid probes useful for analyzing
PT gene expression in human cervical epithelial cells.
XX
PS Claim 27; SEQ ID NO 19789; 487pp; English.

XX The present invention relates to human single exon nucleic acid probes
CC (SENPs; see AA110068-AA128459). The present sequence is a peptide encoded
CC by one such probe. The SENPs are derived from human Hela cells. The SENPs
CC can be used to produce a single exon microarray, which can be used for
CC measuring human gene expression in a sample derived from human cervical
CC epithelial cells. By measuring gene expression, the probes are therefore
CC useful in grading and/or staging of diseases of the cervix, notably
CC cervical cancer. Note: The sequence data for this patent did not form
CC part of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 PFEVPLNIGGAHFTTLLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
DB 1 PFEVPLNIGGAHFTTLLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 56

RESULT 6

ABB33939
ID ABB33939 standard; peptide; 56 AA.

XX
AC ABB33939;

XX 04-FEB-2002 (first entry)

DE Peptide #1445 encoded by human foetal liver single exon probe.

XX Human; foetal liver; gene expression; single exon nucleic acid probe.

XX Homo sapiens.

XX WO200157277-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US0000669.

XX 04-FEB-2000; 2000US-0180312P.

XX 26-MAY-2000; 2000US-0207456P.

XX 30-JUN-2000; 2000US-00608408.

XX 03-AUG-2000; 2000US-00632366.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483447/52.

XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human foetal liver.

XX Claim 27; SEQ ID NO 26574; 639pp + Sequence Listing; English.

XX The invention relates to a single exon nucleic acid probe for measuring
XX human gene expression in a sample derived from human foetal liver. The
XX single exon nucleic acid probes may be used for predicting, measuring and
XX displaying gene expression in samples derived from human foetal liver. The
XX present sequence is a peptide encoded by a single exon nucleic acid probe
XX of the invention. Note: The sequence data for this patent did not form
XX part of the printed specification, but was obtained in electronic format

CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 PFEVPLNIGGAHFTTLLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
DB 1 PFEVPLNIGGAHFTTLLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 56

RESULT 7

AAM27397

ID AAM27397 standard; protein; 56 AA.

XX
AC AAM27397;

XX 17-OCT-2001 (first entry)

XX Peptide #1434 encoded by probe for measuring placental gene expression.

XX Probe; microarray; human; placenta; antenatal diagnosis;

XX Genetic disorder.

XX Homo sapiens.

XX WO200157272-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US0000663.

XX 04-FEB-2000; 2000US-0180312P.

XX 26-MAY-2000; 2000US-0207456P.

XX 30-JUN-2000; 2000US-00608408.

XX 03-AUG-2000; 2000US-00632366.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488897/53.

XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX gene expression in human placenta.

XX Claim 27; SEQ ID NO 27666; 654pp; English.

XX The present invention relates to single exon nucleic acid probes (SENPs;
XX see AA131315-AA157546). The present sequence is a peptide encoded by one
XX such probe. The probes are useful for producing a microarray for
XX predicting, measuring and displaying gene expression in samples derived
XX from human placenta. The probes are useful for antenatal diagnosis of
XX human genetic disorders

XX Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;
Best Local Similarity 100.0%; Pred. No. 3e-28;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 PFEVPLNIGGAHFTTLLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 104
DB 1 PFEVPLNIGGAHFTTLLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHF 56

RESULT 8

ABB28752

PA (HELI-) HELIX RES INST.
 XX (REAS-) RES ASSOC BIOTECHNOLOGY.
 PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
 PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
 DR WPI; 2003-395539/38.
 DR N-PSDB; ADA53477.
 XX
 PT New polynucleotides encoding full-length polypeptides, e.g. secretory
 PT and/or membrane proteins, useful for developing medicines for diseases in
 PT which the gene is involved, or as target molecules for gene therapy.
 XX
 XX Claim 14; SEQ ID NO 2684; 205pp; English.
 XX
 CC The present invention relates to novel human secretory or membrane
 CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
 CC ADA54071). The coding sequences are useful in the gene therapy of
 CC diseases caused by abnormalities of the proteins, e.g. cancer,
 CC inflammatory diseases, osteoporosis or neurological disease.
 XX
 XX Sequence 289 AA;
 SQ
 Query Match 88.8%; Score 560.5; DB 6; Length 289;
 Best Local Similarity 91.7%; Pred. NO. 1.9e-57;
 Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;
 QY 1 MVTGTEPDSRRDGMSSDAEDDDLEPATPTATQAGHALPLLPQEPPEVPLNIGGA 60
 DB 1 MVTGTEPDSRRDGMSSDAEDDDLEPATPTATQAGHALPLLPQEPPEVPLNIGGA 60
 QY 61 HFTTLSTLCRYEDTMLAMPFSGRHYIPTDSEGRYFIDRDGTHFGYVSPSTINFWVLGAD 120
 DB 61 HFTTLSTLCRYEDTMLAMPFSGRHYIPTDSEGRYFIDRDGTHFGDV----LNF-LASGD 115
 RESULT 4
 ABG70922
 ID ABG70922 standard; protein; 106 AA.
 XX
 AC ABG70922;
 XX
 DT 10-DEC-2002 (first entry)
 XX
 DE Human novel membrane protein #3.
 XX
 KW Human; membrane protein; signal transduction; ion channel; cancer;
 KW arthritis; antiviral; cytostatic; antiarthritic; nutritional; cosmetic.
 XX
 OS Homo sapiens.
 XX
 PN US2002119522-A1.
 XX
 PD 29-AUG-2002.
 XX
 PP 18-DEC-2001; 2001US-00024579.
 XX
 PR 28-DEC-2000; 2000US-0258595P.
 XX
 XX (FRID/) FRIDDLE C J.
 PA (GERH/) GERHARDT B.
 PA (HILB/) HILBUN E.
 PA (TURN/) TURNER C A.
 XX
 XX Friddle CJ, Gerhardt B, Hilbun E, Turner CA;
 PI WPI; 2002-731353/79.
 DR N-PSDB; ABS55071.
 XX
 PT New human ion channel-related nucleic acid sequences useful for the
 PT treatment of cancer, arthritis or as antiviral agents, in therapeutic,
 PT diagnostic and pharmacogenomic applications.

XX Claim 3; Page 12-13; 20pp; English.
 XX
 CC The invention relates to an isolated nucleic acid molecule encoding a
 CC novel human membrane protein/ion channel-related protein, including a
 CC vector sequence encoding the proteins. The nucleic acid and its encoded
 CC amino acid sequences are useful in therapeutic, diagnostic and
 CC pharmacogenomic applications. The nucleic acid sequences and the encoding
 CC amino acid sequences are useful in microarrays or other assay formats, to
 CC screen a collection of genetic material from patients that have
 CC a particular medical conditions, and to identify mutations associated with
 CC a particular disease, and also in diagnostic or prognostic assays.
 CC Nucleic acid sequences and the amino acid sequences are useful in
 CC screening of drugs effective in the treatment of symptomatic or
 CC phenotypic manifestation perturbing the normal function of a new human
 CC protein (NHP) in the body. The nucleic acid and the amino acid sequences
 CC are useful in diagnosis, drug screening, clinical trial monitoring, the
 CC treatment of diseases and disorders and in cosmetic or nutritional
 CC applications. NHPs are useful to treat a disease, or to therapeutically
 CC augment the efficacy of chemotherapeutic agents useful in the treatment
 CC of cancer, arthritis or as antiviral agents. The present sequence
 CC represents a novel human membrane protein/ion channel-related protein
 XX
 XX Sequence 106 AA;
 SQ
 Query Match 61.0%; Score 385; DB 5; Length 106;
 Best Local Similarity 97.3%; Pred. NO. 2.5e-37;
 Matches 71; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 48 EFPEWPLNTGGAHFTTLLSTLCRYEDTMLAMPFSGRHYIPTDSEGRYFIDRDGTHFGYV 107
 DB 34 QFPEWPLNTGGAHFTTLLSTLCRYEDTMLAMPFSGRHYIPTDSEGRYFIDRDGTHFGYV 93
 QY 108 SPSTINFWVLGAD 120
 DB 94 SPSTINFWVLGAD 106
 RESULT 5
 AAML4963
 ID AAML4963 standard; protein; 56 AA.
 XX
 AC AAML4963;
 XX
 DT 12-OCT-2001 (first entry)
 XX
 DE Peptide #1397 encoded by probe for measuring cervical gene expression.
 XX
 KW Probe; human; microarray; gene expression; cervical epithelial cell;
 KW cervical cancer.
 XX
 OS Homo sapiens.
 XX
 PN WO200157278-A2.
 XX
 PD 09-AUG-2001.
 XX
 PP 30-JAN-2001; 2001WO-US000670.
 XX
 PR 04-FEB-2000; 2000US-0180312P.
 PR 26-MAY-2000; 2000US-0207456P.
 PR 30-JUN-2000; 2000US-00608408.
 PR 03-AUG-2000; 2000US-00632366.
 PR 21-SEP-2000; 2000US-0234587P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 XX
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-488901/53.
 XX

XX PS Claim 3; Page 12; 20pp; English.

XX CC The invention relates to an isolated nucleic acid molecule encoding a

CC novel human membrane protein/ion channel-related protein, including a

CC vector sequence encoding the proteins. The nucleic acid and its encoded

CC amino acid sequences are useful in therapeutic, diagnostic and

CC pharmacogenomic applications. The nucleic acid sequences and the encoding

CC amino acid sequences are useful in microarrays or other assay formats, to

CC screen a collection of genetic material from patients that have

CC particular medical conditions, and to identify mutations associated with

CC a particular disease, and also in diagnostic or prognostic assays.

CC Nucleic acid sequences and the amino acid sequences are useful in

CC screening of drugs effective in the treatment of symptomatic or

CC phenotypic manifestation perturbing the normal function of a new human

CC protein (NHP) in the body. The nucleic acid and the amino acid sequences

CC are useful in diagnosis, drug screening, clinical trial monitoring, the

CC treatment of diseases and disorders and in cosmetic or nutritional

CC applications. NHPs are useful to treat a disease, or to therapeutically

CC augment the efficacy of chemotherapeutic agents useful in the treatment

CC of cancer, arthritis or as antiviral agents. The present sequence

CC represents a novel human membrane protein/ion channel-related protein

XX CC Sequence 120 AA;

Query Match 100.0%; Score 631; DB 5; Length 120;

Best Local Similarity 100.0%; Pred. No. 2.7e-66;

Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 M V V T G R P D S R R O D G A M S S D A E D D F L E P A T P T A T Q A G H A L P L L P Q E F P V V P L N I G G A 60

DB 1 M V V T G R P D S R R O D G A M S S D A E D D F L E P A T P T A T Q A G H A L P L L P Q E F P V V P L N I G G A 60

QY 61 H F T T L S T L R C Y E D T M L A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V S P S T I N F V L A G D 120

DB 61 H F T T L S T L R C Y E D T M L A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V S P S T I N F V L A G D 120

RESULT 2

AAB15537

ID AAB15537 standard; protein; 271 AA.

AC AAB15537;

XX 28-FEB-2001 (first entry)

DE Human immune system molecule from Incyte clone 2751129.

KW Anti-inflammatory; keratolytic; anti-HIV; anti-allergic; antianaemic;

KW antiarteriosclerotic; antidiabetic; antidiabetic; nephrotropic; cancer;

KW antitumor; dermatological; antithyroid; virucide; hepatotropic; antibody;

KW immunosuppressive; cytostatic; fungicide; protozoicide; antibacterial;

KW gene therapy; diagnostic; immunological disorder; viral infection;

KW bacterial infection; fungal infection; parasitic infection; immunogen.

XX Homo sapiens.

OS WO200060080-A2.

PN 12-OCT-2000.

XX 04-APR-2000; 2000WO-US009072.

XX 05-APR-1999; 99US-0127852P.

XX 05-MAY-1999; 99US-0132647P.

XX (INCY-) INCYTE PHARM INC.

XX Yue H, Lal P, Tang YT, Baughn MB, Azimzai Y, Lu DAM;

PI WPI: 2000-665005/64.

DR N-PSDB; AAA95776.

XX

PT New human immune system molecules 1-15 and polynucleotides encoding them

PT useful for diagnosing, treating or preventing e.g. immunological

PT disorders, infections, cell proliferative disorders, microbial

XX infections.

XX PS Claim 1; Page 77; 95pp; English.

XX CC This sequence represents a human immune system molecule (IMOL) encoded by

CC the cDNA isolated as clone 2751129 from the Incyte THP1A2S08 library. The

CC human IMOLs (AAB15536-B15550) and their encoding polynucleotides

CC (AAA95775-A95789), and compositions comprising them are useful for the

CC diagnosis, treatment or prevention of immunological disorders, infections

CC and cell proliferative disorders, including cancer. The IMOL may be used

CC to treat or prevent disorders associated with decreased expression or

CC activity of IMOL, such as immunological disorders (e.g. inflammation,

CC actinic keratosis, AIDS, Addison's disease), haematopoietic cancer,

CC infections caused by virus (e.g. adenovirus, parvovirus, coronavirus),

CC bacteria (e.g. Staphylococcus, Streptococcus, Shigella), fungi (e.g.

CC Aspergillus, Blastomyces), parasites (e.g. Plasmodium, Trypanosoma,

CC intestinal protozoa), cell proliferative disorders (e.g. actinic

CC keratosis, arteriosclerosis, bursitis), and cancers (e.g. leukemia,

CC melanoma, sarcoma). The peptides are also useful as immunogens for the

CC development of antibodies that specifically recognize these peptides.

CC The polynucleotides may be used to detect and quantify gene expression in

CC biopsied tissues in which expression of IMOL may be correlated with the

CC disease, as targets in a microarray, to detect differences in gene

CC sequences among normal, carrier and affected individuals, and for

CC screening libraries of compounds in drug screening techniques. Antibodies

CC which specifically bind to IMOL may be used for the diagnosis of

CC disorders characterized by expression of IMOL, or in assays to monitor

CC patients being treated with IMOL or agonists, antagonists, or inhibitors

XX of IMOL

XX CC Sequence 271 AA;

Query Match 88.8%; Score 560.5; DB 3; Length 271;

Best Local Similarity 91.7%; Pred. No. 1.7e-57;

Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

QY 1 M V V T G R P D S R R O D G A M S S D A E D D F L E P A T P T A T Q A G H A L P L L P Q E F P V V P L N I G G A 60

DB 1 M V V T G R P D S R R O D G A M S S D A E D D F L E P A T P T A T Q A G H A L P L L P Q E F P V V P L N I G G A 60

QY 61 H F T T L S T L R C Y E D T M L A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V S P S T I N F V L A G D 120

DB 61 H F T T L S T L R C Y E D T M L A M F S G R H Y I P T D S E G R Y F I D R D G T H F G V S P S T I N F V L A G D 120

RESULT 3

ADA55116

ID ADA55116 standard; protein; 289 AA.

XX ADA55116;

AC ADA55116;

XX 20-NOV-2003 (first entry)

DT Human protein, SEQ ID 2684.

DE

XX Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;

KW Gene Therapy; human; secretory protein; membrane proteins; cancer;

KW inflammatory disease; osteoporosis; neurological disease.

XX Homo sapiens.

XX EPI293569-A2.

XX 19-MAR-2003.

XX 21-MAR-2002; 2002EP-00006586.

XX 14-SEP-2001; 2001JP-00328381.

XX 24-JAN-2002; 2002US-0350435P.

XX

Result No.	Query Match	Score	Length	DB	ID	Description
1	631	100.0	120	5	ABG70921	Human nov
2	560.5	88.8	271	3	AA515537	Human imm
3	560.5	88.8	289	6	ADA55516	Human pro
4	385	61.0	106	5	ABG70922	Human nov
5	305	48.3	56	4	AAAM14963	Peptide #
6	305	48.3	56	4	ABB33939	Peptide #
7	305	48.3	56	4	AAAB27397	Peptide #
8	305	48.3	56	4	ABB28752	Peptide #
9	305	48.3	56	4	ABB19375	Protein #
10	305	48.3	56	4	AAAM67102	Human bon
11	305	48.3	56	4	AAAM54702	Human bra
12	305	48.3	56	4	ABG48768	Human liv
13	305	48.3	56	4	ABM02689	Peptide #
14	305	48.3	56	5	ABG36762	Human pep
15	220.5	34.9	130	4	AAAM25242	Human pro
16	215	34.1	76	3	AAAG03290	Human sec
17	163.5	25.9	455	7	ADAC31345	Human nov
18	163.5	25.9	473	6	AAAC32081	Human TRI
19	150.5	23.9	228	4	ABAB60184	Drosophil
20	150.5	23.9	228	5	ABJ10887	K-beta M6
21	147	23.3	272	4	AAAM25877	Human pro
22	146	23.1	237	2	AAAY34129	Human pro
23	146	23.1	237	4	AAAM93682	Human pool
24	146	23.1	237	4	AAU27754	Human ful
25	146	23.1	237	4	AAAB95201	Human pro

Query Match	71.8%;	Score 260.8;	DB 10;	Length 652;
Best Local Similarity	88.4%;	Pred. No. 6e-48;		
Matches 283; Conservative	0;	Mismatches 37;	Indels 0;	Gaps 0;
QY	1	ATGCTGTAGTTCACGGCGCGGACGACAGACCGTGCTCAGGACGGTGCCCATGTCCAGC	60	
Db	160	ATGCTGTAGTTCACGGCGCGGAGCCAGACCGTCACTCGAACGGTGCATGTTCCAGC	219	
QY	61	TCTGAAGCCGAAGACGACTTTCTTGGAGCCGGCCACGGCCACGCGACGCCGGGCAC	120	
Db	220	TCGGAAGCCGAAGACGACTTCTCGAGCGCGCCACTCTCATGGCCACGCAAGCGGGCAC	279	
QY	121	GGCTGCCCCCTGTCGCCACAGGAGTTCTCTGAGGTGTTTCCCCTTAACATCGGAGGGCT	180	
Db	280	GGGCTGCCCCCTGTCGCCACAGGAGTTCTCTGAAGTCGTCCCTTGAACATTGGAGGGCT	339	
QY	181	CAC TTCACTACA GCGCTGTGCACACTGGCGTGCTACGAAGACACCATGTCCGACGCCATG	240	
Db	340	CAC TTTRACCA GCGCTGTGTACTCTTGGGCGCCTATGAAGAACAACATGCTGCTGCCATG	399	
QY	241	TTCA GTGGCGGCA CTAC TCC CAC CGGACT CTCG AGGGCGGGTACTT CATCGA CCGAGAT	300	
Db	400	TTCA GGCGGGCA TTACAT CCCTACAGACTCCA AAGGCGCGTACTT CATCGATCGAGAT	459	
QY	301	GGCACA CACTTTGGGTATGT	320	
Db	460	GGCACA CACTTTGGAGATGT	479	

RESULT 13	
BB857275	
LOCUS	488 bp mRNA linear EST 26-NOV-2001
DEFINITION	BB857275 RIKEN full-length enriched, B16 F10Y cells Mus musculus
	cDNA clone G370042L12 5', mRNA sequence.
ACCESSION	BB857275
VERSION	BB857275.1 GI:17098729
KEYWORDS	EST.
SOURCE	Mus musculus (house mouse)

ORGANISM	Mus musculus
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE	1 (bases 1 to 488)
AUTHORS	AKIMURA, T., ARAKAWA, T., CARNINCI, P., FURUNO, M., HANAGAKI, T., HAYATSU, N., HIRAMOTO, K., HIRAKA, T., HIROZANE, T., IMOTANI, K., IISHII, Y., ITO, M., KAWAI, J., KOJIMA, Y., KONNO, H., Kouda, M., Matsuyama, T., Nakamura, M., Nishi, K., Nomura, K., Numasaki, R., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sakazume, N., Sasaki, D., Sato, K., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Tanaka, T., Tomaru, A., Toyo, T., Watahiki, A., Yasunishi, A., Muramatsu, M. and Hayaehizaki, Y.
TITLE	RIKEN Encyclopedia of Mouse Full-length cDNAs (Akimura, T., et al. 2001)

Unpublished (2001)
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center (GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Stenhiro-cho, Tsurumi-Ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-3222
Fax: 81-45-503-5216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>,
Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K.,
Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. *Genome Res.* 10 (10), 1617-1630 (2000)
wagi,K., Fujiwaka,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E.,
Watabiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T.,
Matsuura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A.
and Hayashizaki,Y.

RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer. *Genome Res.* 10 (11), 1757-1771 (2000)

Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y. and Hayashizaki, Y.

Computer-based methods for the mouse full-length cDNA Encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. *Genome Res.* 11 (2), 281-289 (2001)

Please visit our web site (<http://genome.gsc.riken.go.jp>) for further details.

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FEATURES
  source
    Location/Qualifiers
      1..498
        /organism="Mus musculus"
        /mol_type="mRNA"
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        /db_xref="taxon:10090"
        /clone="G370042L12"
        /cell_type="B16 F10Y cells"
        /clone_lib="RIKEN full-length enriched, B16 F10Y cells"

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ORIGIN

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Query Match      71.4%; Score 259.2; DB 10; Length 488;
Best Local Similarity 88.1%; Pred. No. 1.2e-47;
Matches 282; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

Qy 1 ATGTGTTGATGTCACGGGGGGGAGCCAGACAGCCGCTGTCAGACCGTGCATGTCACGC 60

Db 159 ATGGTGTGATGTCACCGGGGGAGCCAGACAGCCGCTCACTCGACCGGTGCATGTCACGC 218

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Qy	61	TCGACGCGGAAGACGACTTCTCGAGAGCGGCCACGCGCGCGGGCAC	120
Db	219	TCGAGACCGGAAGACGACTTCTCGAGAGCGGCCACCTCTACGCGCCACGCAAGCGGGCAC	278
Qy	121	GGCTGCCCCCTGCTGCCACAGAGGATTTCTCGAGTGTGTTCCCTTAACCATCGAGAGGGCT	180
Db	279	GGCTGCCCCCTGCTGCCCGAGGATTTCTCGAGTGTGTTCCCTTGAACATTGAGAGGGCT	338
Qy	181	CAGTTCACTACAGCCCTGTCCACACTCGCGGTGCTACGAAGACACCATGTTGGCAGCGCATG	240
Db	339	CAGTTTACCAACGCGCTTGCTACTCTCGCGCGCTATGGAAGACACCATGCTGGCTGCCATG	398
Qy	241	TTCAAGTGGCGGCACTACACATCCCACGGACTCCGAGGGCGGGTACTTCATCGACCGAGAT	300
Db	399	TTCAAGCGGCGGCAATTACATCCCTACAGACTCCGAGGGCGGGTACTTCATCGATCGAGAT	458
Qy	301	GGCACACACTTTGGGTATGT	320
Db	459	GGCACACACTTTGGAGATGT	478

RESULT 14	BU431372	BU431372	406 bp	linear	EST 09-SEP-2002
LOCUS	BU431372	UI-HF-BNO-afs-e-10-0-UI.r1 NIH MGC_50 Homo sapiens	cdna clone		
DEFINITION	BU431372	IMAGE:3067867 5', mRNA sequence.			
ACCESSION	BU431372	GI:22769859			
VERSION	BU431372.1	EST.			
KEYWORDS	EST.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
	Organs				

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 406)	NIH-MGC http://mgc.nci.nih.gov/ .	National Institutes of Health, Mammalian Gene Collection (MGC)	Unpublished (1999)	
	Contact: Robert Strausberg, Ph.D.			
	Email: cgapbs-remain@nih.gov			
	Eco RI site shown at the beginning of the sequence.			
	Tissue procurement: Louis M. Staedt, M.D., Ph.D.			
	cDNA Library Preparation: M.B. Soares Lab			
	cDNA Library Arrived by: M.B. Soares Lab			

FEATURES

Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
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 /lab_host="DH10B (phage-resistant)"
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 /note="Organ: uterus; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 2.1 Kb."

ORIGIN

Query Match 84.8%; Score 307.8; DB 13; Length 925;
 Best Local Similarity 99.4%; Pred. No. 2.2e-58;
 Matches 309; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 10 GTCAAGGCGGAGCAGACAGCGCTGTCTAGGAGCGTGCATGTCCAGCTCTACGCC 69
 DB 1 GTCAAGGCGGAGCAGACAGCGCTGTCTAGGAGCGTGCATGTCCAGCTCTACGCC 60

QY 70 GAAGACGACTTCTGAGCGCGCCACGCGAGCGCCACGACGCGGGGACGCGCTGCC 129
 DB 61 GAAGACGACTTCTGAGCGCGCCACGCGAGCGCCACGACGCGGGGACGCGCTGCC 120

QY 130 CTGCTGCCACAGAGTTCTCTGAGGTGTTCCTTTAACTCGAGGGGCTCACTTCACT 189
 DB 121 CTGCTGCCACAGAGTTCTCTGAGGTGTTCCTTTAACTCGAGGGGCTCACTTCACT 180

QY 190 ACAAGCGCTGTCCACACTGCGGTGCTACGAGAGACACCATGTCTGCGAGCCATGTCAGTGG 249
 DB 181 ACAAGCGCTGTCCACACTGCGGTGCTACGAGAGACACCATGTCTGCGAGCCATGTCAGTGG 240

QY 250 CGGCACTATACATCCCAAGGACTCGAGGCGCGGTACTTCAATCGAGAGATGGCAACAC 309
 DB 241 CGGCACTATACATCCCAAGGACTCGAGGCGCGGTACTTCAATCGAGAGATGGCAACAC 300

QY 310 TTGCGTATGT 320
 DB 301 TTGCGATGT 311

RESULT 2
 BI827921 978 bp mRNA linear EST 04-OCT-2001
 LOCUS 603073846P1 NIH_MGC_119 Homo sapiens cDNA clone IMAGE:5165722 5',
 DEFINITION mRNA sequence.
 ACCESSION BI827921
 VERSION BI827921.1 GI:15939471
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
 1 (bases 1 to 978)
 NIH-MGC <http://mgi.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapsb@mail.nih.gov
 Tissue Procurement: Life Technologies, Inc.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
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 High quality sequence stop: 730.
 Location/Qualifiers
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 /organism="Homo sapiens"

FEATURES

Location/Qualifiers
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ORIGIN

Query Match 81.2%; Score 294.8; DB 12; Length 978;
 Best Local Similarity 98.8%; Pred. No. 1.8e-55;
 Matches 318; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 1 ATGTGTGTAGTCACGGGCGGAGCCAGACAGCGTGTCTAGGAGCGTGCATGTCCAGC 60
 DB 125 ATGTGTGTAGTCACGGGCGGAGCCAGACAGCGTGTCTAGGAGCGTGCATGTCCAGC 184

QY 61 TCTGAGCGCGAGAGAGACTTCTGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
 DB 185 TCTGAGCGCGAGAGAGACTTCTGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 244

QY 121 GCGTGTCCCTGCTGCTCCACAGAGTTCTCTGAGGTGTTCCTCCCTTAACTCGAGGGGCT 180
 DB 245 GCGTGTCCCTGCTGCTCCACAGAGTTCTCTGAGGTGTTCCTCCCTTAACTCGAGGGGCT 304

QY 191 CACTTCACTACAGCGCTGTCCACACTGC-GGTGCTACGAGACACCATGTGGAGGCCAT 239
 DB 305 CACTTCACTACAGCGCTGTCCACACTGC-TGTGCTGTCTAGGAGACACCATGTGGAGGCCAT 364

QY 240 GTTCAAGTGGGCGGCACTACATCCCGAGCTCCGAGGCGGCTACTTTCATCGACC-GAG 298
 DB 365 GTTCAAGTGGGCGGCACTACATCCCGAGCTCCGAGGCGGCTACTTTCATCGACC-GAG 424

QY 299 ATGGCACACACTTTGGGTATGT 320
 DB 425 ATGGCACACACTTTGGGATGT 446

RESULT 3
 CF162776 569 bp mRNA linear EST 25-JUL-2003
 LOCUS B0716209-5 NIA Mouse Embryonic Germ Cell cDNA Library (Long) Mus
 DEFINITION musculus cDNA clone NIA:B0716E09 IMAGE:30459416 5', mRNA sequence.
 ACCESSION CF162776
 VERSION CF162776.1 GI:33272325
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
 1 (bases 1 to 569)
 Piao, Y., Ko, N.T., Lim, M.K. and Ko, M.S.H.
 Construction of long-transcript enriched cDNA libraries from submicrogram amounts of total RNAs by a universal PCR amplification method
 Genome Res. 11 (9), 1553-1558 (2001)
 JOURNAL 21429098
 MEDLINE 11544199
 PUBMED 11544199
 COMMENT Contact: Dawood B. Dudekula
 Laboratory of Genetics
 National Institute on Aging/National Institutes of Health
 333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA
 Email: cdna@lgsun.grc.nia.nih.gov
 Plate: B0716 row: E column: 09
 Seq primer: M13 Reverse

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 8, 2004, 09:16:07 ; Search time 2522 Seconds

(without alignments)
4298.165 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363

Sequence: 1 atgggtgtagtcacggggcg.....tagctcagcagtgattag 363

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:*

1: em_estba:*

2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_estl:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_pig:*

27: em_gss_vrl:*

28: gb_gssl:*

29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	307.8	84.8	925	BU902852	BU902852 AGENCOURT
2	294.8	81.2	978	BI827921	BI827921 603073846
3	262.4	72.3	569	CF162776	CF162776 B0716E09-
4	262.4	72.3	617	BY722445	BY722445 BY722445

5	262.4	72.3	651	10	BB626649
6	262.4	72.3	655	10	BB655300
7	262.4	72.3	658	10	BB616333
8	262.4	72.3	658	10	BB658221
9	262.4	72.3	3269	11	AK029942
10	262.4	72.3	3485	11	AK034583
11	262.4	72.3	4269	11	AK083583
12	260.8	71.8	652	10	BB626934
13	259.2	71.4	488	10	BB857275
14	250.8	68.9	406	13	BU431372
15	248.8	68.5	620	14	CB546071
16	235.8	65.2	696	10	BB646865
17	232	63.9	697	13	BU702844
18	221.8	61.1	416	9	AI674184
19	203.2	56.0	718	13	BU388953
20	203.2	56.0	763	13	BU392850
21	198.8	54.8	771	9	AJ447425
22	187.2	51.6	394	13	BY132675
23	179.2	49.4	879	13	BU184896
24	177	48.8	473	13	BY153097
25	137	37.7	225	10	BE244090
26	124.4	34.3	498	10	BB854860
27	121	33.3	607	10	BB856997
28	120	33.1	470	10	BB857546
29	118.8	32.7	733	13	BU143952
30	114.6	31.6	922	29	CNS02F32
31	111.8	30.8	904	14	CK017002
32	105	28.9	762	13	BU211329
33	105	28.9	779	14	CA347612
34	105	28.9	827	13	EX882754
35	96.6	26.6	297	10	BB601700
36	94.8	26.1	316	13	BY152426
37	93.2	25.7	661	13	EX871982
38	91.8	25.3	645	29	AY420591
39	87.4	24.1	645	29	AY420592
40	80.6	22.2	645	29	AY420593
41	70	19.3	600	14	CA383840
42	68.4	18.8	578	13	EX085304
43	68.2	18.8	877	29	CNS03UBE
44	67	18.5	461	10	AW645752
45	67	18.5	476	10	AW635487

ALIGNMENTS

RESULT 1
BU902852
LOCUS
DEFINITION AGENCOURT_10180053 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:6528253
5' mRNA sequence.
ACCESSION BU902852
VERSION BU902852.1 GI:24084765
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 925)
AUTHORS NIH-MGC http://mgc.ncbi.nlm.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM14126 row: h column: 13
High quality sequence stop: 638.

BU902852 925 bp cRNA linear EST 17-OCT-2002
AGENCOURT_10180053 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:6528253
5' mRNA sequence.

Db 406 GGCTGCCCCCTCTGCTCCACAGGAGTTCTGAGGTGTCCCTTAAACATCGAGGGCT 465
QY 181 CACTTCTACACGGCTGTCCACACTGCGGTGCTACAGACACCATGTGTGCAGCCATG 240
Db 466 CACTTCTACACGGCTGTCCACACTGCGGTGCTACAGACACCATGTGTGCAGCCATG 525
QY 241 TTCACTGGCGGCACCTACATCCCAAGCACTCCGAGGCGCGTACTTCACTGACCGAGAT 300
Db 526 TTCAGTGGCGGCACCTACATCCCAAGCACTCCGAGGCGCGTACTTCACTGACCGAGAT 585
QY 301 GGCACACACTTTGGGTATGT 320
Db 586 GGCACACACTTTGGGATGT 605

RESULT 7
US-09-864-761-1385/c
; Sequence 1385, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aecomics-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.5
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 1385
; LENGTH: 473
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

OTHER INFORMATION: MAP TO AC006001.2
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.6
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 12
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 5.4
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 7.3
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 14
OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 8.5
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
US-09-864-761-1385

Query Match 61.1%; Score 221.8; DB 9; Length 473;
Best Local Similarity 86.8%; Pred. No. 7.7e-62;
Matches 244; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

QY 83 TGGAGCGGGCCACGCGGAGCGCCACGCGAGGGGGGCGCGCTGCCCTGCTGCCACAGG 142
Db 461 TGGAGCAGCGCCAGCTCTCATTTCCCGTTGCTGCTGAGAGCCCTGGNGATTTCTTTCC 402
QY 143 AGTTTCTGAGGTGTTCCTTAAACATCGAGGGGGCTCACTTCACTACAGCCCTGTCCA 202
Db 401 AGTTTCTGAGGTGTTCCTTAAACATCGAGGGGGCTCACTTCACTACAGCCCTGTCCA 342
QY 203 CACTGCGGTGCTACGAAGACACCATGTGTGCGAGCCATGTTCAGTGGGGCGGCATCATCC 262
Db 341 CACTGCGGTGCTACGAAGACACCATGTGTGCGAGCCATGTTCAGTGGGGCGGCATCATCC 282
QY 263 CCAGGACTCGAGGGCGGTACTTCATCGACCGAGATGGCACACACTTTGGGTATGTCT 322
Db 281 CCAGGACTCGAGGGCGGTACTTCATCGACCGAGATGGCACACACTTTGGGTATGTCT 222
QY 323 CTCCTCTTACAATCAACTTTGTAGTCTCTAGCAGGTGATTAG 363
Db 221 CTCCTCTTACAATCAACTTTGTAGTCTCTAGCAGGTGATTAG 181

RESULT 8
US-10-086-156-29
; Sequence 29, Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SU
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/272,190
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/274,258
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 29
; LENGTH: 583
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-086-156-29

Query Match 61.1%; Score 221.8; DB 15; Length 583;
Best Local Similarity 86.8%; Pred. No. 8.1e-62;
Matches 244; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
QY 83 TGGAGCGGGCCACGCGGAGCGCCACGCGAGGGGGGCGCGCTGCCCTGCTGCCACAGG 142
Db 145 TGGAGCAGCGCCAGCTCTCATTTCCCGTTGCTGCTGAGAGCCCTGGTGATTTCTTTCC 204
QY 143 AGTTTCTGAGGTGTTCCTTAAACATCGAGGGGGCTCACTTCACTACAGCCCTGTCCA 202
Db 205 AGTTTCTGAGGTGTTCCTTAAACATCGAGGGGGCTCACTTCACTACAGCCCTGTCCA 264

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; SOFTWARE: pt_Fl_genes Version 2.0
; SEQ ID NO 408
; LENGTH: 1068
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (100)..(1068)
-US-10-988-408
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Query Match      87.3%; Score 316.8; DB 16; Length 1068;
Best Local Similarity 99.4%; Pred. No. 1.3e-92;
Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGTGGTGTAGTCAAGCGGGCGGGAGCCAGACAGCGGTGCTCAGACGGTGCCTGCTCCAGC 60
Db 100 ATGGTGGTGTAGTCAAGCGGGCGGGAGCCAGACAGCGGTGCTCAGACGGTGCCTGCTCCAGC 159
QY 61 TCTGAGCGCCGAGAGACGACTTTCTGGAGCGCGGCCACGCGCGACCGCCACGCGAGGGGGGCAC 120
Db 160 TCTGAGCGCCGAGAGACGACTTTCTGGAGCGCGGCCACGCGCGACCGCCACGCGAGGGGGGCAC 219
QY 121 GCCTGCGCCCTGCTGCGACAGGAGTTTCTGAGGTGTTCCCTTAAACATCGAGGGGGCT 180
Db 220 GCCTGCGCCCTGCTGCGACAGGAGTTTCTGAGGTGTTCCCTTAAACATCGAGGGGGCT 279
QY 181 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCACTGTTGGCAGCCATG 240
Db 280 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCACTGTTGGCAGCCATG 339
QY 241 TTCAGTGGCGGCGCACTACATCCCAACGCACTCCGAGGGCGGGTACTTTCATCGACCGAGAT 300
Db 340 TTCAGTGGCGGCGCACTACATCCCAACGCACTCCGAGGGCGGGTACTTTCATCGACCGAGAT 399
QY 301 GGCACACACTTTGGGTATGT 320
Db 400 GGCACACACTTTGGAGATGT 419
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RESULT 5

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US-10-094-749-1045
; Sequence 1045, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1045
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; LENGTH: 2576
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-094-749-1045
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Query Match      87.3%; Score 316.8; DB 16; Length 2576;
Best Local Similarity 99.4%; Pred. No. 1.6e-92;
Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGTGGTGTAGTCAAGCGGGCGGGAGCCAGACAGCGGTGCTCAGACGGTGCCTGCTCCAGC 60
Db 108 ATGGTGGTGTAGTCAAGCGGGCGGGAGCCAGACAGCGGTGCTCAGACGGTGCCTGCTCCAGC 167
QY 61 TCTGAGCGCCGAGAGACGACTTTCTGGAGCGCGGCCACGCGCGACCGCCACGCGAGGGGGGCAC 120
Db 168 TCTGAGCGCCGAGAGACGACTTTCTGGAGCGCGGCCACGCGCGACCGCCACGCGAGGGGGGCAC 227
QY 121 GCCTGCGCCCTGCTGCGACAGGAGTTTCTGAGGTGTTCCCTTAAACATCGAGGGGGCT 180
Db 228 GCCTGCGCCCTGCTGCGACAGGAGTTTCTGAGGTGTTCCCTTAAACATCGAGGGGGCT 287
QY 181 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCACTGTTGGCAGCCATG 240
Db 288 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCACTGTTGGCAGCCATG 347
QY 241 TTCAGTGGCGGCGCACTACATCCCAACGCACTCCGAGGGCGGGTACTTTCATCGACCGAGAT 300
Db 348 TTCAGTGGCGGCGCACTACATCCCAACGCACTCCGAGGGCGGGTACTTTCATCGACCGAGAT 407
QY 301 GGCACACACTTTGGGTATGT 320
Db 408 GGCACACACTTTGGAGATGT 427
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RESULT 6

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US-10-086-156-23
; Sequence 23, Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SU
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/272,190
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/274,258
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: Patent In version 3.0
; SEQ ID NO 23
; LENGTH: 2154
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1029)
-US-10-086-156-23
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Query Match      86.8%; Score 315.2; DB 15; Length 2154;
Best Local Similarity 99.1%; Pred. No. 5e-92;
Matches 317; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATGGTGGTGTAGTCAAGCGGGCGGGAGCCAGACAGCGGTGCTCAGACGGTGCCTGCTCCAGC 60
Db 286 ATGGTGGTGTAGTCAAGCGGGCGGGAGCCAGACAGCGGTGCTCAGACGGTGCCTGCTCCAGC 345
QY 61 TCTGAGCGCCGAGAGACGACTTTCTGGAGCGCGGCCACGCGCGACCGCCACGCGAGGGGGGCAC 120
Db 346 TCTGAGCGCCGAGAGACGACTTTCTGGAGCGCGGCCACGCGCGACCGCCACGCGAGGGGGGCAC 405
QY 121 GCCTGCGCCCTGCTGCGACAGGAGTTTCTGAGGTGTTCCCTTAAACATCGAGGGGGCT 180
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Db 121 GCGTCGCCCTGCTGCGCAGGAGTTTCTCAGGTTTCTCCCTTAACATCGAGGGCT 180
QY 181 CACTTCACTACAGCCCTGTCACACTCGCGTGTACGAACACACCATGTTGGCAGCCATG 240
Db 181 CACTTCACTACAGCCCTGTCACACTCGCGTGTACGAACACACCATGTTGGCAGCCATG 240
QY 241 TTCAGTGGGGGCGGCACTACATCCCCACAGCACTCCGAGCGCGGTACTTTCATCGACCGAGAT 300
Db 241 TTCAGTGGGGGCGGCACTACATCCCCACAGCACTCCGAGCGCGGTACTTTCATCGACCGAGAT 300
QY 301 GGCACACACTTTGGGTATGTCCTCCCTCTACATCAACTTTCAGTCTAGCAGGTGAT 360
Db 301 GGCACACACTTTGGGTATGTCCTCCCTCTACATCAACTTTCAGTCTAGCAGGTGAT 360
QY 361 TAG 363
Db 361 TAG 363

RESULT 2
US-10-024-579-8
; Sequence 8, Application US/10024579
; Publication No. US20020119522A1
; GENERAL INFORMATION:
; APPLICANT: Pridde, Carl Johan
; APPLICANT: Gerhardt, Brenda
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. US20020119522A1 Human Ion Channel-Related Proteins
; TITLE OF INVENTION: and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0274-USA
; CURRENT APPLICATION NUMBER: US/10/024,579
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 680
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-024-579-8

Query Match 100.0%; Score 363; DB 14; Length 680;
Best Local Similarity 100.0%; Pred. No. 1.2e-107;
Matches 363; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGTGTAGTCAAGGCGGAGCCAGACAGCGGTGTCAGACCGGTGTCATGTCCAGC 60
Db 198 ATGGTGTAGTCAAGGCGGAGCCAGACAGCGGTGTCAGACCGGTGTCATGTCCAGC 257
QY 61 TCTGAGCCGAGACGACTTCTGGAGCCGCGCCAGCGCCAGCGCGGGGCAC 120
Db 258 TCTGAGCCGAGACGACTTCTGGAGCCGCGCCAGCGCCAGCGCGGGGCAC 317
QY 121 GCGTCCCTGCTGCGCAGGAGTTTCTCAGGTTTCTCCCTTAACATCGAGGGGCT 180
Db 318 GCGTCCCTGCTGCGCAGGAGTTTCTCAGGTTTCTCCCTTAACATCGAGGGGCT 377
QY 181 CACTTCACTACAGCCCTGTCACACTCGGTGTACGAACACACCATGTTGGCAGCCATG 240
Db 378 CACTTCACTACAGCCCTGTCACACTCGGTGTACGAACACACCATGTTGGCAGCCATG 437
QY 241 TTCAGTGGGGGCGGCACTACATCCCCACAGCACTCCGAGCGCGGTACTTTCATCGACCGAGAT 300
Db 438 TTCAGTGGGGGCGGCACTACATCCCCACAGCACTCCGAGCGCGGTACTTTCATCGACCGAGAT 497
QY 301 GGCACACACTTTGGGTATGTCCTCCCTCTACATCAACTTTCAGTCTAGCAGGTGAT 360
Db 498 GGCACACACTTTGGGTATGTCCTCCCTCTACATCAACTTTCAGTCTAGCAGGTGAT 557
QY 361 TAG 363

Db 558 TAG 560
RESULT 3
US-10-296-115-18
; Sequence 18, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248A1 Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 18
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-296-115-18

Query Match 87.3%; Score 316.8; DB 13; Length 519;
Best Local Similarity 99.4%; Pred. No. 1.1e-92;
Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGTGTAGTCAAGGCGGAGCCAGACAGCGGTGTCAGACCGGTGTCATGTCCAGC 60
Db 69 ATGGTGTAGTCAAGGCGGAGCCAGACAGCGGTGTCAGACCGGTGTCATGTCCAGC 128
QY 61 TCTGAGCCGAGACGACTTCTGGAGCCGCGCCAGCGCCAGCGCGGGGCAC 120
Db 129 TCTGAGCCGAGACGACTTCTGGAGCCGCGCCAGCGCCAGCGCGGGGCAC 188
QY 121 GCGTCCCTGCTGCGCAGGAGTTTCTCAGGTTTCTCCCTTAACATCGAGGGGCT 180
Db 189 GCGTCCCTGCTGCGCAGGAGTTTCTCAGGTTTCTCCCTTAACATCGAGGGGCT 248
QY 181 CACTTCACTACAGCCCTGTCACACTCGGTGTACGAACACACCATGTTGGCAGCCATG 240
Db 249 CACTTCACTACAGCCCTGTCACACTCGGTGTACGAACACACCATGTTGGCAGCCATG 308
QY 241 TTCAGTGGGGGCGGCACTACATCCCCACAGCACTCCGAGCGCGGTACTTTCATCGACCGAGAT 300
Db 309 TTCAGTGGGGGCGGCACTACATCCCCACAGCACTCCGAGCGCGGTACTTTCATCGACCGAGAT 368
QY 301 GGCACACACTTTGGGTATGTTGT 320
Db 369 GGCACACACTTTGGGTATGTTGT 388

RESULT 4
US-10-120-988-408
; Sequence 408, Application US/10120988
; Publication No. US20030219745A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Goodrich, Ryle
; APPLICANT: Liu, Chenghua
; APPLICANT: Ren, Felyan
; APPLICANT: Wang, Dunrui
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030219745A1 Nucleic Acids and
; FILE REFERENCE: 802CON
; CURRENT APPLICATION NUMBER: US/10/120,988
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 09/774,528
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 441

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 8, 2004, 09:30:35 ; Search time 348 Seconds
(without alignments)
4758.634 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363
Sequence: 1 atgttgtagtcaacggggcg.....tagctctagcagtgattag 363

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2995936 seqs, 2280998010 residues

Total number of hits satisfying chosen parameters: 5991872

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:

1: /cgm2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:
2: /cgm2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
3: /cgm2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:
4: /cgm2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
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17: /cgm2_6/ptodata/2/pubpna/US10E_NEW_PUB.seq:
18: /cgm2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:
19: /cgm2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	363	100.0	363	14	US-10-024-579-4
2	363	100.0	680	14	Sequence 4, Appli
3	316.8	87.3	519	13	US-10-024-579-8
4	316.8	87.3	1068	16	US-10-296-115-18
5	316.8	87.3	2576	16	US-10-120-988-408
6	315.2	86.8	2154	15	US-10-094-749-1045
7	221.8	61.1	473	9	US-10-086-156-23
8	221.8	61.1	583	15	US-09-864-761-1385
9	220.2	60.7	321	14	US-10-086-156-29
10	172	47.4	173	9	US-10-024-579-6
11	80	22.0	80	15	US-09-864-761-18144
12	66.2	18.2	785	9	US-10-086-156-30
13	61.8	17.0	484	10	US-09-910-943-391
14	61.8	17.0	692	10	US-09-918-995-12592
					Sequence 12592, A
					Sequence 9849, Ap

15 61.8 17.0 692 10 US-09-764-891-9850 Sequence 9850, Ap
16 61.8 17.0 692 10 US-09-764-891-9851 Sequence 9851, Ap
17 61.8 17.0 724 15 US-10-086-156-8 Sequence 8, Appli
18 61.8 17.0 779 15 US-10-029-386-22606 Sequence 22606, A
19 61.8 17.0 1014 13 US-10-296-115-653 Sequence 653, App
20 61.8 17.0 1109 13 US-10-302-172-672 Sequence 672, App
21 61.8 17.0 1839 15 US-10-086-156-1 Sequence 1, Appli
22 61.8 17.0 3101 15 US-10-198-846-12187 Sequence 12187, A
23 57.2 15.8 1718 15 US-10-168-651-31 Sequence 31, Appli
24 57 15.7 531 15 US-10-106-698-398 Sequence 398, App
25 57 15.7 592 9 US-09-925-299-106 Sequence 106, App
26 57 15.7 592 10 US-09-925-299-106 Sequence 106, App
27 57 15.7 1696 15 US-10-040-805-1 Sequence 1, Appli
28 57 15.7 1696 15 US-10-264-171-1 Sequence 1, Appli
29 57 15.7 1710 15 US-10-101-510-376 Sequence 376, App
30 56.4 15.5 420 15 US-10-101-510-182 Sequence 182, App
31 50.6 13.9 388 15 US-10-101-510-607 Sequence 607, App
32 50.6 13.9 2677 16 US-10-094-749-625 Sequence 625, App
33 50 3512 9 US-09-969-347-190 Sequence 190, App
34 49.2 13.6 728 13 US-10-276-774-1285 Sequence 1285, Ap
35 49.2 13.6 2940 16 US-10-094-749-1206 Sequence 1206, Ap
36 48.4 13.3 1542 15 US-10-121-746-24 Sequence 24, Appli
37 48.4 13.3 1751 15 US-10-121-746-23 Sequence 23, Appli
38 48.4 13.3 1800 15 US-10-121-746-21 Sequence 21, Appli
39 48.4 13.3 1836 15 US-10-121-746-22 Sequence 22, Appli
40 42.6 11.7 471 13 US-10-085-783A-42075 Sequence 42075, A
41 42.6 11.7 471 16 US-10-242-535A-42075 Sequence 42075, A
42 42.6 11.7 1450 15 US-10-037-270-1058 Sequence 1058, Ap
43 42.6 11.7 1450 16 US-10-117-722-1058 Sequence 1058, Ap
44 42.6 11.7 1862 15 US-10-121-746-11 Sequence 11, Appli
45 41 11.3 435 9 US-09-983-965-1948 Sequence 1948, Ap

ALIGNMENTS

RESULT 1

US-10-024-579-4
; Sequence 4, Application US/10024579
; Publication No. US20020119522A1
; GENERAL INFORMATION:
; APPLICANT: Friddle, Carl Johan
; APPLICANT: Gerhardt, Brenda
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. US20020119522A1el Human Ion Channel-Related Proteins
; TITLE OF INVENTION: and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0274-USA
; CURRENT APPLICATION NUMBER: US/10/024, 579
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 363
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-024-579-4

Query Match 100.0%; Score 363; DB 14; Length 363;
Best Local Similarity 100.0%; Pred. No. 1.1e-107;
Matches 363; Conservative 0; Mismatches 0; Gaps 0;
Qy 1 ATGTGTTAGTACAGCGGCGGAGCCAGACAGCGCTGTCTACGACGGTGCATGTCAGC 60
Db 1 ATGTGTTAGTACAGCGGCGGAGCCAGACAGCGCTGTCTACGACGGTGCATGTCAGC 60
Qy 61 TCTGACGCCGGAAGACGACTTTCTTGAGCGCGGCGGACCGGCGGCGGCGGCGGCGG 120
Db 61 TCTGACGCCGGAAGACGACTTTCTTGAGCGCGGCGGCGGCGGCGGCGGCGGCGG 120
Qy 121 GCGCTGCCCTGCTGCCACAGGAGTTCTTCTGAGGTGTTGTCCTTAAACATCGGAGGGCT 180

=> s novel human proteins or NHPS
L1 586 NOVEL HUMAN PROTEINS OR NHPS

=> s l1 and (ion channel#)
L2 60 L1 AND (ION CHANNEL#)

=> duplicate remove
ENTER L# LIST OR (END):l2
DUPLICATE PREFERENCE IS 'USPATFULL, PCTFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L2
L3 60 DUPLICATE REMOVE L2 (0 DUPLICATES REMOVED)

=> d 1-60

L3 ANSWER 1 OF 60 USPATFULL on STN
AN 2004:63821 USPATFULL
TI Human proteins having transmembrane domains and cDNAs encoding these proteins
IN Kato, Seishi, Sagamihara-shi, JAPAN
Sekine, Shingo, Ageo-shi, JAPAN
PA Sagami Chemical Research Center, Sagamihara-shi, JAPAN (non-U.S. corporation)
Protegene, Inc., Tokyo, JAPAN (non-U.S. corporation)
PI US 2004048339 A1 20040311
AI US 2003-616942 A1 20030711 (10)
RLI Continuation of Ser. No. US 2000-529100, filed on 21 Aug 2000, ABANDONED
A 371 of International Ser. No. WO 1998-JP4474, filed on 5 Oct 1998,
UNKNOWN
PRAI JP 1997-276269 19971008
DT Utility
FS APPLICATION
LN.CNT 2285
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C07K014-705
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 60 USPATFULL on STN
AN 2004:45198 USPATFULL
TI Human proteins having hydropobic domains and dnas encoding these proteins
IN Kato, Seishi, Sagamihara-shi, JAPAN
Kimura, Tomoko, Tsuchiura-shi, JAPAN
PI US 2004034192 A1 20040219
AI US 2002-169395 A1 20021129 (10)
WO 2000-JP9359 20001228
PRAI JP 2000-585 20000106
JP 2000-588 20000106
JP 2000-2299 20000111
JP 2000-26862 20000203
JP 2000-58367 20000303
DT Utility
FS APPLICATION
LN.CNT 11212
INCL INCLM: 530/350.000
INCLS: 536/023.500; 435/320.100; 435/325.000; 435/069.100; 530/388.100
NCL NCLM: 530/350.000
NCLS: 536/023.500; 435/320.100; 435/325.000; 435/069.100; 530/388.100
IC [7]

ICM: C07K014-435
ICS: C07K016-18; C12P021-02; C12N005-06; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 60 USPATFULL on STN
AN 2004:32039 USPATFULL
TI **Novel human proteins**, polynucleotides
encoding them and methods of using the same
IN Gangolli, Esha A., Madison, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Gilbert, Jennifer, Madison, CT, UNITED STATES
Casman, Stacie, North Haven, CT, UNITED STATES
Blalock, Angela, Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Vernet, Corine, Branford, CT, UNITED STATES
Shenoy, Suresh, Branford, CT, UNITED STATES
Mishra, Vishnu S., Gainesville, FL, UNITED STATES
Furtak, Katarzyna, Ansonia, CT, UNITED STATES
Gerlach, Valerie L., Branford, CT, UNITED STATES
Edinger, Shlomit, New Haven, CT, UNITED STATES
Malyanker, Uriel, Branford, CT, UNITED STATES
Stone, David, Guilford, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Padigar, Muralidhara, Branford, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
PI US 2004024181 A1 20040205
AI US 2001-55569 A1 20011026 (10)
PRAI US 2000-243642P 20001026 (60)
US 2000-243320P 20001026 (60)
US 2000-243592P 20001026 (60)
US 2000-243681P 20001027 (60)
US 2000-243863P 20001027 (60)
US 2000-244443P 20001031 (60)
US 2000-245029P 20001101 (60)
US 2000-244995P 20001101 (60)
US 2000-245293P 20001102 (60)
US 2000-245315P 20001102 (60)
US 2000-245316P 20001102 (60)
US 2001-262994P 20010119 (60)
US 2001-269056P 20010215 (60)
US 2001-272923P 20010302 (60)
US 2001-276565P 20010315 (60)
US 2001-318119P 20010907 (60)
DT Utility
FS APPLICATION
LN.CNT 10785
INCL INCLM: 530/350.000
INCLS: 536/023.500; 435/069.100; 435/320.100; 435/325.000
NCL NCLM: 530/350.000
NCLS: 536/023.500; 435/069.100; 435/320.100; 435/325.000
IC [7]
ICM: C07K014-705
ICS: C12P021-02; C12N005-06; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 60 USPATFULL on STN
AN 2003:334945 USPATFULL
TI **Novel Human proteins**, polynucleotides
encoding them and methods of using the same
IN Zerhusen, Bryan D., Branford, CT, UNITED STATES

Kekuda, Ramesh, Norwalk, CT, UNITED STATES
 Spytek, Kimberly A., New Haven, CT, UNITED STATES
 Shenoy, Suresh G., Branford, CT, UNITED STATES
 Miller, Charles E., Guilford, CT, UNITED STATES
 Hjalt, Tord, Lomma, SWEDEN
 Gerlach, Valerie, Branford, CT, UNITED STATES
 Baumgartner, Jason C., New Haven, CT, UNITED STATES
 Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
 Gangolli, Esha A., Madison, CT, UNITED STATES
 Vernet, Corine A. M., Branford, CT, UNITED STATES
 Padigar, Muralidhara, Branford, CT, UNITED STATES
 Li, Li, Branford, CT, UNITED STATES
 Pena, Carol E. A., New Haven, CT, UNITED STATES
 Gorman, Linda, Branford, CT, UNITED STATES
 Anderson, David W., Branford, CT, UNITED STATES
 Edinger, Schlomit R., New Haven, CT, UNITED STATES
 Patturajan, Meera, Branford, CT, UNITED STATES
 Stone, David J., Guilford, CT, UNITED STATES

PI US 2003235821 A1 20031225
 AI US 2002-161927 A1 20020603 (10)
 PRAI US 2001-295661P 20010604 (60)
 US 2001-295607P 20010604 (60)
 US 2001-296404P 20010606 (60)
 US 2001-296418P 20010606 (60)
 US 2001-296575P 20010607 (60)
 US 2001-297414P 20010611 (60)
 US 2001-297567P 20010612 (60)
 US 2001-298528P 20010615 (60)
 US 2001-325685P 20010927 (60)
 US 2001-299133P 20010618 (60)
 US 2001-299230P 20010619 (60)
 US 2001-299949P 20010621 (60)
 US 2001-300177P 20010622 (60)
 US 2001-318727P 20010912 (60)
 US 2001-300883P 20010626 (60)
 US 2002-358814P 20020222 (60)
 US 2001-301530P 20010628 (60)
 US 2001-301550P 20010628 (60)
 US 2001-302951P 20010703 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 17643
 INCL INCLM: 435/006.000
 INCLS: 435/007.200; 435/069.100; 435/325.000; 435/252.300; 435/254.200;
 435/320.100; 536/023.200; 435/183.000; 530/350.000; 435/348.000
 NCL NCLM: 435/006.000
 NCLS: 435/007.200; 435/069.100; 435/325.000; 435/252.300; 435/254.200;
 435/320.100; 536/023.200; 435/183.000; 530/350.000; 435/348.000
 IC [7]
 ICM: C12Q001-68
 ICS: G01N033-53; G01N033-567; C07H021-04; C12N009-00; C12P021-02;
 C12N001-21; C07K014-47; C12N015-74; C12N001-18; C12N005-06
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 60 USPATFULL on STN
 AN 2003:324327 USPATFULL
 TI **Novel human proteins**, polynucleotides
 encoding them and methods of using the same
 IN Li, Li, Branford, CT, UNITED STATES
 Furtak, Katarzyna, Ansonia, CT, UNITED STATES
 Perna, Amanda, Hamden, CT, UNITED STATES
 Patturajan, Meera, Branford, CT, UNITED STATES
 Shimkets, Richard A., Guilford, CT, UNITED STATES
 Guo, Xiaojia Sasha, Branford, CT, UNITED STATES

Casman, Stacie J., North Haven, CT, UNITED STATES
 Burgess, Catherine E., Wethersfield, CT, UNITED STATES
 Malyankar, Uriel M., Branford, CT, UNITED STATES
 Tchernev, Velizar T., Branford, CT, UNITED STATES
 Vernet, Corine A., Branford, CT, UNITED STATES
 Spytek, Kimberly A., New Haven, CT, UNITED STATES
 Agee, Michele, Wallingford, CT, UNITED STATES
 Rastelli, Luca, Guilford, CT, UNITED STATES
 Shenoy, Suresh G., Branford, CT, UNITED STATES
 Grosse, William M., Branford, CT, UNITED STATES
 Alsobrook, John P., II, Madison, CT, UNITED STATES
 Lepley, Denise M., Branford, CT, UNITED STATES
 Gerlach, Valerie, Branford, CT, UNITED STATES
 Edinger, Schlomit R., New Haven, CT, UNITED STATES
 MacDougall, John R., Hamden, CT, UNITED STATES
 Peyman, John A., New Haven, CT, UNITED STATES
 Gunther, Erik, Branford, CT, UNITED STATES
 Stone, David J., Guilford, CT, UNITED STATES
 Ellerman, Karen, Branford, CT, UNITED STATES
 Gangolli, Esha A., Madison, CT, UNITED STATES

PI US 2003228301 A1 20031211
 AI US 2001-4378 A1 20011024 (10)
 PRAI US 2000-242882P 20001024 (60)
 US 2000-242765P 20001024 (60)
 US 2001-300206P 20010622 (60)
 US 2000-242789P 20001024 (60)
 US 2000-242768P 20001024 (60)
 US 2000-242767P 20001024 (60)
 US 2000-243622P 20001026 (60)
 US 2001-273047P 20010302 (60)
 US 2000-243591P 20001026 (60)
 US 2000-243950P 20001027 (60)
 US 2001-316509P 20010831 (60)
 US 2000-243593P 20001026 (60)
 US 2000-243502P 20001026 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 10092
 INCL INCLM: 424/130.100
 INCLS: 435/006.000; 435/183.000; 435/069.100; 435/320.100; 435/325.000;
 530/350.000; 530/388.100; 536/023.200
 NCL NCLM: 424/130.100
 NCLS: 435/006.000; 435/183.000; 435/069.100; 435/320.100; 435/325.000;
 530/350.000; 530/388.100; 536/023.200
 IC [7]
 ICM: C12Q001-68
 ICS: C07H021-04; A61K039-395; C12P021-02; C12N005-06; C07K014-47;
 C07K016-40

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 60 USPATFULL on STN
 AN 2003:301031 USPATFULL
 TI **Novel human proteins**, polynucleotides
 encoding them and methods of using the same
 IN Spytek, Kimberly A., New Haven, CT, UNITED STATES
 Li, Li, Branford, CT, UNITED STATES
 Edinger, Shlomit R., New Haven, CT, UNITED STATES
 Ellerman, Karen, Branford, CT, UNITED STATES
 Stone, David J., Guilford, CT, UNITED STATES
 Malyankar, Uriel M., Branford, CT, UNITED STATES
 Shimkets, Richard A., Guilford, CT, UNITED STATES
 Guo, Xiaojia Sasha, Branford, CT, UNITED STATES
 Anderson, David W., Branford, CT, UNITED STATES
 Patturajan, Meera, Branford, CT, UNITED STATES

Berghs, Constance, New Haven, CT, UNITED STATES
 Gerlach, Valerie, Branford, CT, UNITED STATES
 Gusev, Vladimir Y., Madison, CT, UNITED STATES
 Kekuda, Ramesh, Norwalk, CT, UNITED STATES
 Gorman, Linda, Branford, CT, UNITED STATES
 Zerhusen, Bryan D., Branford, CT, UNITED STATES
 Baumgartner, Jason C., New Haven, CT, UNITED STATES
 Tchernev, Velizar T., Branford, CT, UNITED STATES
 Vernet, Corine A.M., Branford, CT, UNITED STATES
 Smithson, Glennda, Guilford, CT, UNITED STATES
 Shenoy, Suresh G., Branford, CT, UNITED STATES
 Liu, Xiaohong, Lexington, MA, UNITED STATES
 MacDoughall, John R., Hamden, CT, UNITED STATES

PI US 2003212257 A1 20031113
 AI US 2002-115482 A1 20020402 (10)
 PRAI US 2001-281086P 20010403 (60)
 US 2001-281136P 20010403 (60)
 US 2001-281863P 20010405 (60)
 US 2001-281906P 20010405 (60)
 US 2001-282934P 20010410 (60)
 US 2001-283512P 20010412 (60)
 US 2001-285325P 20010419 (60)
 US 2001-285890P 20010423 (60)
 US 2001-286068P 20010424 (60)
 US 2001-286292P 20010425 (60)
 US 2001-287213P 20010427 (60)
 US 2001-288257P 20010502 (60)
 US 2001-291134P 20010515 (60)
 US 2001-282020P 20010406 (60)
 US 2001-291725P 20010517 (60)
 US 2001-294771P 20010531 (60)
 US 2001-296965P 20010608 (60)
 US 2001-299128P 20010618 (60)
 US 2001-305063P 20010712 (60)
 US 2001-332780P 20011114 (60)
 US 2002-345221P 20020104 (60)

DT Utility
 FS APPLICATION

LN.CNT 13310

INCL INCLM: 530/350.000

NCL NCLM: 530/350.000

IC [7]

ICM: C07K001-00

ICS: C07K014-00; C07K017-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 60 USPATFULL on STN

AN 2003:134090 USPATFULL

TI HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAS ENCODING THESE
 PROTEINS

IN KATO, SEISHI, KANAGAWA, JAPAN
 SEKINE, SHINGO, SAITAMA, JAPAN
 KIMURA, TOMOKO, KANAGAWA, JAPAN
 KOBAYASHI, MIDORI, KANAGAWA, JAPAN

PI US 2003092175 A1 20030515

AI US 1999-284320 A1 19990621 (9)

WO 1997-JP4056 19971107

PRAI JP 1996-301429 19961113

DT Utility

FS APPLICATION

LN.CNT 5373

INCL INCLM: 435/365.100

INCLS: 536/023.500; 530/350.000; 435/069.100

NCL NCLM: 435/365.100

NCLS: 536/023.500; 530/350.000; 435/069.100
IC [7]
ICM: C12P021-06
ICS: C12N005-10; C12N005-06; C07K017-00; C07H021-04; C07K014-00;
C07K001-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 60 USPATFULL on STN
AN 2003:127105 USPATFULL
TI Human NIM1 kinase
IN Bandman, Olga, Mountain View, CA, UNITED STATES
Molteni, Angela, Cantu, ITALY
Magnaghi, Paola, UNITED STATES
Bosotti, Roberta, Nerviano, ITALY
Scacheri, Emanuela, UNITED STATES
Isacchi, Antonella, UNITED STATES
Hodgson, David M., Ann Arbor, MI, UNITED STATES
PA Incyte Genomics, Inc., Palo Alto, CA (U.S. corporation)
PI US 2003087317 A1 20030508
AI US 2002-195101 A1 20020711 (10)
RLI Continuation-in-part of Ser. No. US 2000-523849, filed on 13 Mar 2000,
GRANTED, Pat. No. US 6458561
DT Utility
FS APPLICATION
LN.CNT 3635
INCL INCLM: 435/007.230
INCLS: 435/069.100; 435/194.000; 435/320.100; 435/325.000; 536/023.200
NCL NCLM: 435/007.230
NCLS: 435/069.100; 435/194.000; 435/320.100; 435/325.000; 536/023.200
IC [7]
ICM: G01N033-574
ICS: C07H021-04; C12N009-12; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 60 USPATFULL on STN
AN 2003:106251 USPATFULL
TI Signal peptide-containing proteins
IN Lal, Preeti G., Santa Clara, CA, UNITED STATES
Au-Young, Janice, Brisbane, CA, UNITED STATES
Reddy, Roopa, Sunnyvale, CA, UNITED STATES
Murry, Lynn E., Fayetteville, AR, UNITED STATES
Mathur, Preete, Fremont, CA, UNITED STATES
PI US 2003073162 A1 20030417
AI US 2001-968433 A1 20011001 (9)
RLI Continuation-in-part of Ser. No. US 1999-271110, filed on 17 Mar 1999,
ABANDONED Continuation-in-part of Ser. No. US 1997-966316, filed on 7
Nov 1997, GRANTED, Pat. No. US 5932445
DT Utility
FS APPLICATION
LN.CNT 3950
INCL INCLM: 435/069.100
INCLS: 435/070.300; 435/183.000; 435/320.100; 435/325.000; 435/326.000;
530/350.000; 530/388.100; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/070.300; 435/183.000; 435/320.100; 435/325.000; 435/326.000;
530/350.000; 530/388.100; 536/023.500
IC [7]
ICM: C07K014-435
ICS: C12P021-02; C07H021-04; C12P021-04; C12N009-00; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 60 USPATFULL on STN
AN 2003:93131 USPATFULL
TI Novel human ion channel proteins and polynucleotides

encoding the same

IN Walke, D. Wade, Spring, TX, UNITED STATES
 Mathur, Brian, The Woodlands, TX, UNITED STATES
 Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
 Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
 Gerhardt, Brenda, Spring, TX, UNITED STATES

PI US 2003064490 A1 20030403
 AI US 2001-918359 A1 20010730 (9)
 PRAI US 2000-221643P 20000728 (60)
 US 2000-222503P 20000802 (60)

DT Utility
 FS APPLICATION
 LN.CNT 1283

INCL INCLM: 435/183.000
 INCLS: 435/069.100; 435/006.000; 435/325.000; 435/320.100; 536/023.200

NCL NCLM: 435/183.000
 NCLS: 435/069.100; 435/006.000; 435/325.000; 435/320.100; 536/023.200

IC [7]
 ICM: C12N009-00
 ICS: C12Q001-68; C07H021-04; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 60 USPATFULL on STN
 AN 2003:71945 USPATFULL
 TI **Novel human proteins**, polynucleotides
 encoding them and methods of using the same

IN Taupier, Raymond J., JR., New Haven, CT, UNITED STATES
 Padigar, Muralidhara, Branford, CT, UNITED STATES
 Spytek, Kimberly A., New Haven, CT, UNITED STATES
 Burgess, Catherine E., Wethersfield, CT, UNITED STATES
 Vernet, Corine A.M., North Branford, CT, UNITED STATES
 Fernandes, Elma R., Branford, CT, UNITED STATES
 Shimkets, Richard A., West Haven, CT, UNITED STATES
 Liu, Xiaohong, Branford, CT, UNITED STATES
 Majumder, Kumud, Stamford, CT, UNITED STATES
 Colman, Steven D., Guilford, CT, UNITED STATES
 Zerhusen, Bryan D., Branford, CT, UNITED STATES

PI US 2003050232 A1 20030313
 AI US 2001-839446 A1 20010419 (9)
 PRAI US 2000-198293P 20000419 (60)
 US 2000-198645P 20000420 (60)
 US 2000-210809P 20000609 (60)
 US 2000-199476P 20000425 (60)
 US 2000-200025P 20000426 (60)
 US 2000-224610P 20000811 (60)
 US 2000-200024P 20000426 (60)
 US 2000-199880P 20000426 (60)
 US 2000-218591P 20000717 (60)
 US 2001-271814P 20010227 (60)

DT Utility
 FS APPLICATION
 LN.CNT 6226

INCL INCLM: 514/012.000
 INCLS: 536/023.200; 435/069.100; 435/189.000; 435/325.000; 435/320.100

NCL NCLM: 514/012.000
 NCLS: 536/023.200; 435/069.100; 435/189.000; 435/325.000; 435/320.100

IC [7]
 ICM: A61K038-17
 ICS: C07H021-04; C12N009-02; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 60 USPATFULL on STN
 AN 2003:30282 USPATFULL
 TI Isolated human kinase proteins, nucleic acid molecules encoding human

kinase proteins, and uses thereof

IN Yan, Chunhua, Boyd, MD, UNITED STATES
 Ketchum, Karen A., Germantown, MD, UNITED STATES
 Di Francesco, Valentina, Rockville, MD, UNITED STATES
 Beasley, Ellen M., Darnestown, MD, UNITED STATES

PA APPLERA CORPORATION, Norwalk, CT, UNITED STATES, 06856-5435 (U.S. corporation)

PI US 2003022229 A1 20030130
 US 6730506 B2 20040504

AI US 2002-224562 A1 20020821 (10)

RLI Division of Ser. No. US 2001-801861, filed on 9 Mar 2001, PENDING

PRAI US 2001-265151P 20010131 (60)

DT Utility

FS APPLICATION

LN.CNT 3707

INCL INCLM: 435/006.000
 INCLS: 435/069.100; 435/194.000; 435/320.100; 435/325.000; 536/023.200

NCL NCLM: 435/194.000
 NCLS: 530/350.000; 435/006.000; 435/252.300; 435/320.100; 435/325.000

IC [7]
 ICM: C12Q001-68
 ICS: C07H021-04; C12N009-12; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 60 USPATFULL on STN

AN 2002:337390 USPATFULL

TI Human polynucleotides, polypeptides, and antibodies

IN Moore, Paul A., Germantown, MD, UNITED STATES
 Coleman, Timothy A., Gaithersburg, MD, UNITED STATES
 Gentz, Reiner L., Rockville, MD, UNITED STATES
 Dillon, Patrick J., Carlsbad, CA, UNITED STATES
 Ni, Jian, Germantown, MD, UNITED STATES
 Li, Yi, Sunnyvale, CA, UNITED STATES
 Endress, Gregory A., Florence, MA, UNITED STATES
 Soppet, Daniel R., Centreville, VA, UNITED STATES

PI US 2002192749 A1 20021219

AI US 2001-969384 A1 20011003 (9)

RLI Continuation-in-part of Ser. No. WO 2001-US10542, filed on 2 Apr 2001, UNKNOWN

PRAI US 2000-194118P 20000403 (60)
 US 2000-236384P 20000929 (60)

DT Utility

FS APPLICATION

LN.CNT 13925

INCL INCLM: 435/069.100
 INCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.200

NCL NCLM: 435/069.100
 NCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.200

IC [7]
 ICM: C12P021-02
 ICS: C12N005-06; C07H021-04; C12N009-00; C07K014-435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 60 USPATFULL on STN

AN 2002:287612 USPATFULL

TI Novel human **ion channel** protein and polynucleotides encoding the same

IN Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
 Hilbun, Erin, Houston, TX, UNITED STATES
 Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES

PI US 2002160475 A1 20021031

AI US 2001-16647 A1 20011210 (10)

PRAI US 2000-257932P 20001220 (60)

DT Utility

FS APPLICATION

LN.CNT 1081

INCL INCLM: 435/183.000

INCLS: 536/023.200

NCL NCLM: 435/183.000

NCLS: 536/023.200

IC [7]

ICM: C07H021-04

ICS: C12N009-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 60 USPATFULL on STN

AN 2002:272888 USPATFULL

TI Human polynucleotides, polypeptides, and antibodies

IN Ni, Jian, Germantown, MD, UNITED STATES

Shi, Yanggu, Gaithersburg, MD, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)

PI US 2002151009 A1 20021017

AI US 2001-939825 A1 20010828 (9)

RLI Continuation-in-part of Ser. No. WO 2001-US5498, filed on 22 Feb 2001, UNKNOWN

PRAI US 2000-184664P 20000224 (60)

US 2000-189874P 20000316 (60)

DT Utility

FS APPLICATION

LN.CNT 14831

INCL INCLM: 435/183.000

INCLS: 435/006.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200

NCL NCLM: 435/183.000

NCLS: 435/006.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200

IC [7]

ICM: C12N009-00

ICS: C12Q001-68; C07H021-04; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 60 USPATFULL on STN

AN 2002:258806 USPATFULL

TI Isolated human transporter proteins, nucleic acid molecules encoding human transporter proteins, and uses thereof

IN Merkulov, Gennady, Baltimore, MD, UNITED STATES

Guegler, Karl, Menlo Park, CA, UNITED STATES

Brandon, Rhonda C., Laytonsville, MD, UNITED STATES

Di Francesco, Valentina, Rockville, MD, UNITED STATES

Beasley, Ellen M., Darnestown, MD, UNITED STATES

PI US 2002142376 A1 20021003

AI US 2001-768781 A1 20010125 (9)

RLI Continuation-in-part of Ser. No. US 2000-740034, filed on 20 Dec 2000, ABANDONED

DT Utility

FS APPLICATION

LN.CNT 3248

INCL INCLM: 435/069.100

INCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.500

NCL NCLM: 435/069.100

NCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.500

IC [7]

ICM: C12P021-02

ICS: C12N005-06; C07K014-435; C07H021-04; C12N009-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 60 USPATFULL on STN

AN 2002:228449 USPATFULL
 TI **Novel human proteins**, polynucleotides
 encoding them and methods of using the same
 IN Gerlach, Valerie L., Branford, CT, UNITED STATES
 Ellerman, Karen, Branford, CT, UNITED STATES
 MacDougall, John R., Hamden, CT, UNITED STATES
 Smithson, Glennnda, Guilford, CT, UNITED STATES
 PI US 2002123612 A1 20020905
 AI US 2001-898570 A1 20010703 (9)
 PRAI US 2000-198293P 20000419 (60)
 US 2000-198645P 20000420 (60)
 US 2000-210809P 20000609 (60)
 US 2000-199476P 20000425 (60)
 US 2000-200025P 20000426 (60)
 US 2000-224610P 20000811 (60)
 US 2000-200024P 20000426 (60)
 US 2000-199880P 20000426 (60)
 US 2000-218591P 20000717 (60)
 US 2001-271814P 20010227 (60)
 US 2000-215855P 20000703 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 7507
 INCL INCLM: 530/350.000
 INCLS: 435/069.100; 435/325.000; 435/320.100; 536/023.500
 NCL NCLM: 530/350.000
 NCLS: 435/069.100; 435/325.000; 435/320.100; 536/023.500
 IC [7]
 ICM: C07K014-435
 ICS: C07H021-04; C12P021-02; C12N005-06
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 60 USPATFULL on STN
 AN 2002:221403 USPATFULL
 TI **ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN**
KINASE PROTEINS, AND USES THEREOF
 IN Yan, Chunhua, Boyds, MD, UNITED STATES
 Ketchum, Karen A., Germantown, MD, UNITED STATES
 Di Francesco, Valentina, Rockville, MD, UNITED STATES
 Beasley, Ellen M., Darnestown, MD, UNITED STATES
 PI US 2002119544 A1 20020829
 US 6492154 B2 20021210
 AI US 2001-801861 A1 20010309 (9)
 PRAI US 2001-265151P 20010131 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3706
 INCL INCLM: 435/194.000
 INCLS: 435/069.100; 435/320.100; 435/325.000; 536/023.200
 NCL NCLM: 435/194.000
 NCLS: 435/252.300; 435/320.100; 435/325.000; 536/023.200
 IC [7]
 ICM: C12N009-12
 ICS: C07H021-04; C12P021-02; C12N005-06
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 60 USPATFULL on STN
 AN 2002:221399 USPATFULL
 TI **Novel human ion channel** protein and polynucleotides
 encoding the same
 IN Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
 Hilbun, Erin, Houston, TX, UNITED STATES
 Gerhardt, Brenda, Spring, TX, UNITED STATES
 Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES

PI US 2002119540 A1 20020829
AI US 2001-974712 A1 20011010 (9)
PRAI US 2000-239623P 20001010 (60)
DT Utility
FS APPLICATION
LN.CNT 1086
INCL INCLM: 435/183.000
INCLS: 536/023.200
NCL NCLM: 435/183.000
NCLS: 536/023.200
IC [7]
ICM: C07H021-04
ICS: C12N009-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 60 USPATFULL on STN
AN 2002:221382 USPATFULL
TI Novel human **ion channel**-related proteins and
polynucleotides encoding the same
IN Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
Gerhardt, Brenda, Spring, TX, UNITED STATES
Hilbun, Erin, Houston, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
PI US 2002119522 A1 20020829
AI US 2001-24579 A1 20011218 (10)
PRAI US 2000-258595P 20001228 (60)
DT Utility
FS APPLICATION
LN.CNT 1385
INCL INCLM: 435/069.100
INCLS: 536/023.200; 435/320.100; 435/325.000; 530/350.000
NCL NCLM: 435/069.100
NCLS: 536/023.200; 435/320.100; 435/325.000; 530/350.000
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07H021-04; C07K014-435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 60 USPATFULL on STN
AN 2002:206777 USPATFULL
TI Novel human **ion channel** protein and polynucleotides
encoding the same
IN Yu, Xuanchuan Sean, Houston, TX, UNITED STATES
Miranda, Maricar, Houston, TX, UNITED STATES
PI US 2002111478 A1 20020815
AI US 2001-34843 A1 20011227 (10)
PRAI US 2000-258334P 20001227 (60)
DT Utility
FS APPLICATION
LN.CNT 1085
INCL INCLM: 536/023.500
INCLS: 530/350.000
NCL NCLM: 536/023.500
NCLS: 530/350.000
IC [7]
ICM: C07H021-04
ICS: C07K014-435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 22 OF 60 USPATFULL on STN
AN 2002:148637 USPATFULL
TI Novel human **ion channel** proteins and polynucleotides
encoding the same
IN Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES

Mathur, Daniel, Wooster, OH, UNITED STATES
Mathur, Brian, The Woodlands, TX, UNITED STATES

PI US 2002076780 A1 20020620
AI US 2001-930871 A1 20010814 (9)
PRAI US 2000-225989P 20000816 (60)

DT Utility
FS APPLICATION

LN.CNT 3707

INCL INCLM: 435/183.000
INCLS: 530/350.000; 536/023.200

NCL NCLM: 435/183.000
NCLS: 530/350.000; 536/023.200

IC [7]
ICM: C12N009-00
ICS: C07H021-04

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 23 OF 60 USPATFULL on STN

AN 2002:105903 USPATFULL

TI Human Sec6 vesicle transport protein

IN Labrie, Samuel T., St. Peters, MO, UNITED STATES
Streeter, David G., Boulder Creek, CA, UNITED STATES

PI US 2002055108 A1 20020509
AI US 2001-881852 A1 20010613 (9)

RLI Continuation-in-part of Ser. No. US 1999-349635, filed on 8 Jul 1999,
ABANDONED Continuation-in-part of Ser. No. US 1997-941262, filed on 30
Sep 1997, GRANTED, Pat. No. US 5989818

DT Utility
FS APPLICATION

LN.CNT 2378

INCL INCLM: 435/006.000
INCLS: 435/183.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200

NCL NCLM: 435/006.000
NCLS: 435/183.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200

IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 24 OF 60 USPATFULL on STN

AN 2002:78847 USPATFULL

TI Novel human **ion channel** protein and polynucleotides
encoding the same

IN Hu, Yi, The Woodlands, TX, UNITED STATES
Kieke, James Alvin, Houston, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
Nehls, Michael C., Stockdorf, GERMANY, FEDERAL REPUBLIC OF
Friedrich, Glenn, Houston, TX, UNITED STATES
Zambrowicz, Brian, The Woodlands, TX, UNITED STATES
Sands, Arthur T., The Woodlands, TX, UNITED STATES

PI US 2002042505 A1 20020411
AI US 2001-825147 A1 20010403 (9)
PRAI US 2000-194255P 20000403 (60)

DT Utility
FS APPLICATION

LN.CNT 1142

INCL INCLM: 536/023.200
INCLS: 435/183.000

NCL NCLM: 536/023.200
NCLS: 435/183.000

IC [7]
ICM: C07H021-04
ICS: C12N009-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 25 OF 60 USPATFULL on STN
 AN 2002:346980 USPATFULL
 TI cDNAs coding for human proteins having transmembrane domains
 IN Kato, Seishi, Sagamihara, JAPAN
 Sekine, Shingo, Ageo, JAPAN
 PA Sagami Chemical Research Center, Kanagawa, JAPAN (non-U.S. corporation)
 Protogene, Inc., Tokyo, JAPAN (non-U.S. corporation)
 PI US 6500939 B1 20021231
 WO 9918199 19990415
 AI US 2000-529157 20000821 (9)
 WO 1998-JP4447 19981002
 20000821 PCT 371 date
 PRAI JP 1997-276270 19971008
 DT Utility
 FS GRANTED
 LN.CNT 1696
 INCL INCLM: 536/023.100
 INCLS: 435/325.000; 435/320.100; 435/366.000
 NCL NCLM: 536/023.100
 NCLS: 435/320.100; 435/325.000; 435/366.000
 IC [7]
 ICM: C07H021-02
 ICS: C07H021-04; C12N001-00; C12N015-00; C12N005-08
 EXF 435/325; 435/320.1; 435/366; 435/23.1; 536/23.1
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 26 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002098900 PCTFULL ED 20021218 EW 200250
 TIEN **NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES**
 ENCODING THEM AND METHODS OF USING THE SAME
 TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET METHODES
 D'UTILISATION ASSOCIEES
 IN ZERHUSEN, Bryan, D., 337 Monticello Drive, Branford, CT 06405, US [US,
 US];
 KEKUDA, Ramesh, 71 Aiken Street, Unit R3, Norwalk, CT 06851, US [IN,
 US];
 SPYTEK, Kimberly, A., 28 Court Street, Number 1, New Haven, CT 06511, US
 [US, US];
 SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US];
 MILLER, Charles, E., 98 Saddle Hill Drive, Guilford, CT 06437, US [US,
 US];
 HJALT, Tord, 514 Main Street, Apartment 30, East Haven, CT 06512, US
 [SE, US];
 GERLACH, Valerie, L., 18 Rock Pasture Road, Branford, CT 06405, US [US,
 US];
 BAUMGARTNER, Jason, C., 1697 Quinnipiac Avenue, New Haven, CT 06513, US
 [US, US];
 GUO, Xiaojia, 713 Robert Frost Drive, Branford, CT 06405, US [CN, US];
 GANGOLLI, Esha, A., 31 Strawberry Hill Road, Madison, CT 06443, US [IN,
 US];
 VERNET, Corine, A., M., Apartment L6, 1739 Foxon Road, Branford, CT
 06471, US [FR, US];
 PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US];
 LI, Li, 56 Jerimoth Drive, Branford, CT 06405, US [CN, US];
 PENA, Carol, E., A., 604 Orange Street, Number 2, New Haven, CT 06511,
 US [US, US];
 GORMAN, Linda, 329 Monticello Drive, Branford, CT 06405, US [US, US];
 ANDERSON, David, W., 85 Montoya Drive, Branford, CT 06405, US [US, US];
 EDINGER, Shlomit, R., 766 Edgewood Avenue, New Haven, CT 06515, US [US,
 US];
 PATTURAJAN, Meera, Apartment 1C, 45 Harrison Avenue, Branford, CT 06405,
 US [IN, US];
 STONE, David, J., 223 Whitehorn Drive, Guilford, CT 06437, US [US, US]

PA CURAGEN CORPORATION, 11th floor, 555 Long Wharf Drive, New Haven, CT 06511, US [US, US], for all designates States except US;
 ZERHUSEN, Bryan, D., 337 Monticello Drive, Branford, CT 06405, US [US, US], for US only;
 KEKUDA, Ramesh, 71 Aiken Street, Unit R3, Norwalk, CT 06851, US [IN, US], for US only;
 SPYTEK, Kimberly, A., 28 Court Street, Number 1, New Haven, CT 06511, US [US, US], for US only;
 SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US], for US only;
 MILLER, Charles, E., 98 Saddle Hill Drive, Guilford, CT 06437, US [US, US], for US only;
 HJALT, Tord, 514 Main Street, Apartment 30, East Haven, CT 06512, US [SE, US], for US only;
 GERLACH, Valerie, L., 18 Rock Pasture Road, Branford, CT 06405, US [US, US], for US only;
 BAUMGARTNER, Jason, C., 1697 Quinnipiac Avenue, New Haven, CT 06513, US [US, US], for US only;
 GUO, Xiaojia, 713 Robert Frost Drive, Branford, CT 06405, US [CN, US], for US only;
 GANGOLLI, Esha, A., 31 Strawberry Hill Road, Madison, CT 06443, US [IN, US], for US only;
 VERNET, Corine, A., M., Apartment L6, 1739 Foxon Road, Branford, CT 06471, US [FR, US], for US only;
 PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US], for US only;
 LI, Li, 56 Jerimoth Drive, Branford, CT 06405, US [CN, US], for US only;
 PENA, Carol, E., A., 604 Orange Street, Number 2, New Haven, CT 06511, US [US, US], for US only;
 GORMAN, Linda, 329 Monticello Drive, Branford, CT 06405, US [US, US], for US only;
 ANDERSON, David, W., 85 Montoya Drive, Branford, CT 06405, US [US, US], for US only;
 EDINGER, Shlomit, R., 766 Edgewood Avenue, New Haven, CT 06515, US [US, US], for US only;
 PATTURAJAN, Meera, Apartment 1C, 45 Harrison Avenue, Branford, CT 06405, US [IN, US], for US only;
 STONE, David, J., 223 Whitehorn Drive, Guilford, CT 06437, US [US, US], for US only

AG ELRIFI, Ivor, R., Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo, P., C., One Financial Center, Boston, MA 02111, US

LAF English

LA English

DT Patent

PI WO 2002098900 A2 20021212

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM
 TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO): AM AZ BY KG KZ MD RU TJ TM

RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2002-US17558 A 20020604

PRAI US 2001-60/295,661 20010604
 US 2001-60/295,607 20010604
 US 2001-60/296,404 20010606
 US 2001-60/296,418 20010606
 US 2001-60/296,575 20010607
 US 2001-60/297,414 20010611
 US 2001-60/297,567 20010612
 US 2001-60/298,528 20010615
 US 2001-60/299,133 20010618

US 2001-60/299,230	20010619
US 2001-60/299,949	20010621
US 2001-60/300,177	20010622
US 2001-60/300,883	20010626
US 2001-60/301,550	20010628
US 2001-60/301,530	20010628
US 2001-60/302,951	20010703
US 2001-60/318,727	20010912
US 2001-60/325,685	20010927
US 2002-60/358,814	20020222
US 2002-10/161,927	20020603

L3 ANSWER 27 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002081629 PCTFULL ED 20021028 EW 200242
 TIEN **NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES**
 ENCODING THEM AND METHODS OF USING THE SAME
 TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES CODANT CELLES-CI ET
 PROCEDE D'UTILISATION DE CEUX-CI
 IN SPYTEK, Kimberly, A., 28 Court Street, Number 1, New Haven, CT 06511, US
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GERLACH, Valerie, 18 Rock Pasture Road, Branford, CT 06405, US [US, US], for US only;
TAUPIER, Raymond, J., Jr., 34 Pardee Place Extension, East Haven, CT 06512, US [US, US], for US only;
PENA, Carol, E., A., 604 Orange Street, Number 2, New Haven, CT 06511, US [US, US], for US only;
PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US], for US only;
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ZERHUSEN, Bryan, D., 337 Monticello Drive, Branford, CT 06405, US [US, US], for US only;
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VERNET, Corine, A., M., 1739 Foxon Road, Apartment L6, Branford, CT 06471, US [FR, US], for US only;
SMITHSON, Glennda, 125 Michael Drive, Guildford, CT 06435, US [US, US], for US only;
HEYES, Melvyn, P., 183 Townsend Avenue, Number 3, New Haven, CT 06512, US [GB, US], for US only;
SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US], for US only;
LIU, Xiaohong, 96 Montoya Circle, Branford, CT 06405, US [US, US], for US only;
GANGOLLI, Esha, A., 31 Strawberry Hill Road, Madison, CT 06443, US [IN, US], for US only

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ELRIFI, Ivor, R., Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, One Financial Center, Boston, MA 02111, US

LAF English
 LA English
 DT Patent
 PI WO 2002081629 A2 20021017
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
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 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2002-US10522 A 20020403
 PRAI US 2001-60/281,136 20010403
 US 2001-60/281,086 20010403
 US 2001-60/281,906 20010405
 US 2001-60/281,863 20010405
 US 2001-60/282,934 20010410
 US 2001-60/283,512 20010412
 US 2001-60/285,325 20010419
 US 2001-60/285,890 20010423
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 US 2001-60/286,292 20010425
 US 2001-60/287,213 20010427
 US 2001-60/288,257 20010502
 US 2001-60/291,134 20010512
 US 2001-60/282,020 20010515
 US 2001-60/291,725 20010517
 US 2001-60/294,771 20010531
 US 2001-60/296,965 20010608
 US 2001-60/299,128 20010618
 US 2001-60/305,063 20010712
 US 2001-60/332,780 20011114
 US 2002-60/345,221 20020104
 US 2002-unknown 20020402
 L3 ANSWER 28 OF 60 PCTFULL COPYRIGHT 2004 Univention on STN
 AN 2002072861 PCTFULL ED 20020927 EW 200238
 TIEN CD53 CELL SURFACE ANTIGEN
 TIFR ANTIGENE DE SURFACE CELLULAIRE CD53
 IN LAL, Preeti, G., P.O. Box 5142, Santa Clara, CA 95056, US [IN, US]
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 LAF English
 LA English
 DT Patent
 PI WO 2002072861 A1 20020919
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM
 TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
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 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2002-US7054 A 20020307
 PRAI US 2001-09/803,478 20010308
 ICM C12P021-06

ICS C12P021-04 ; C07H021-04

L3 ANSWER 29 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002072831 PCTFULL ED 20020927 EW 200238
TIEN ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING
HUMAN TRANSPORTER PROTEINS, AND USES THEREOF
TIFR PROTEINES TRANSPORTEURS HUMAINES ISOLEES, MOLECULES D'ACIDES NUCLEIQUES
CODANT DES PROTEINES TRANSPORTEURS HUMAINES, ET UTILISATIONS ASSOCIEES
IN MERKULOV, Gennady, Celera Genomics, 45 West Gude Drive C2-4#21,
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BEASLEY, Ellen, M., Celera Genomics, 45 West Gude Drive C2-4#21,
Rockville, MD 20850, US
PA PE CORPORATION (NY), 761 Main Avenue, Norwalk, CT 06859, US [US, US]
LAF English
LA English
DT Patent
PI WO 2002072831 A2 20020919
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
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TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
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RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2002-US929 A 20020115
PRAI US 2001-09/768,781 20010125
ICM C12N015-12
ICS C07K014-705 ; C07K016-28 ; C12Q001-68 ; G01N033-68 ;
A01K067-027 ;
A61K039-395

L3 ANSWER 30 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002068626 PCTFULL ED 20020916 EW 200236
TIEN NOVEL HUMAN ION CHANNEL-RELATED PROTEINS AND
POLYNUCLEOTIDES ENCODING THE SAME
TIFR NOUVELLES PROTEINES HUMAINES LIEES AU CANAL IONIQUE ET POLYNUCLEOTIDES
CODANT POUR CES PROTEINES
IN FRIDDLE, Carl, Johan, 127 S. Goldenvine Circle, The Woodlands, TX 77382,
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LAF English
LA English
DT Patent
PI WO 2002068626 A2 20020906
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW

RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2001-US49197 A 20011218
 PRAI US 2000-60/258,595 20001228
 ICM C12N015-00

 L3 ANSWER 31 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002061060 PCTFULL ED 20020815 EW 200232
 TIEN ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
 KINASE PROTEINS, AND USES THEREOF
 TIFR PROTEINES KINASES HUMAINES ISOLEES, MOLECULE D'ACIDE NUCLEIQUE CODANT
 CES PROTEINES KINASES HUMAINES ET LEURS UTILISATIONS
 IN YAN, Chunhua, Celera Genomics, 45 West Gude Drive C2-4#20, Rockville, MD
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 PA PE CORPORATION (NY), 761 Main Avenue, Norwalk, CT 06859, US [US, US]
 LAF English
 LA English
 DT Patent
 PI WO 2002061060 A2 20020808
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
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 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
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 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
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 AI WO 2002-US1106 A 20020117
 PRAI US 2001-60/265,151 20010131
 US 2001-09/801,861 20010309
 ICM C12N009-00

 L3 ANSWER 32 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002060945 PCTFULL ED 20020815 EW 200232
 TIEN NOVEL HUMAN **ION CHANNEL** PROTEIN AND POLYNUCLEOTIDES
 ENCODING THE SAME
 TIFR NOUVELLE PROTEINE HUMAINE DE CANAUX IONIQUES ET POLYPEPTIDES LA CODANT
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 DT Patent
 PI WO 2002060945 A2 20020808
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
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 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
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 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
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RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2001-US49488 A 20011227
 PRAI US 2000-60/258,334 20001227
 ICM C07K014-47

L3 ANSWER 33 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002055702 PCTFULL ED 20020725 EW 200229
 TIEN **NOVEL HUMAN PROTEINS**, POLYNUCLEOTIDES
 ENCODING THEM AND METHODS OF USING THE SAME
 TIFR PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET PROCEDES D'UTILISATION
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 TAUPIER, Raymond, J., Jr., 34 Pardee Place Extension, East Haven, CT
 06512, US [US, US];
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 06511, US [US, US], for all designates States except US;
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 GILBERT, Jennifer, 343 Horsepond Road, Madison, CT 06443, US [US, US],
 for US only;
 CASMAN, Stacie, 17 Peck Street, North Haven, CT 06511, US [US, US], for
 US only;
 BLALOCK, Angela, 140 Mill Street, Apartement 315, Branford, CT 06405, US
 [US, US], for US only;
 LI, Li, 56 Jerimoth Drive, Branford, CT 06405, US [CN, US], for US only;
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 06471, US [FR, US], for US only;
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 US only;
 MISHRA, Vishnu, 3832 SW 93rd Terrace, Gainesville, FL 32608, US [IN,
 US], for US only;
 FURTAK, Katarzyna, 31 Park Place, Ansonia, CT 06401, US [PL, US], for US
 only;
 GERLACH, Valerie, 18 Rock Pasture Road, Branford, CT 06405, US [US, US],
 for US only;
 EDINGER, Shlomit, 766 Edgewood Avenue, New Haven, CT 06515, US [US, US],
 for US only;
 MALYANKAR, Uriel, 229 Brandford Road #330, Branford, CT 06405, US [IN,

US], for US only;
STONE, David, 223 Whitethorn Drive, Guilford, CT 06437, US [US, US], for US only;
MILLET, Isabelle, 74 Carrington Avenue, Milford, CT 06460, US [FR, US], for US only;
SMITHSON, Glenna, 125 Michael Drive, Guilford, CT 06435, US [US, US], for US only;
GUNTHER, Erik, 34 Bryan Road, Branford, CT 06405, US [US, US], for US only;
PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US], for US only;
TAUPIER, Raymond, J., Jr., 34 Pardee Place Extension, East Haven, CT 06512, US [US, US], for US only;
ANDERSON, David, 43A Linden Avenue, Brandord, CT 06405, US [US, US], for US only

AG ELRIFI, Ivor, R., Mintz, Levin, Cohn, Ferris, Glovsky & Popeo, P.C ., One Financial Center, Boston, MA 02111, US

LAF English
LA English
DT Patent
PI WO 2002055702 A2 20020718
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
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TT TZ UA UG US UZ VN YU ZA ZW
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RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2001-US50925 A 20011026
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US 2000-60/243,320 20001026
US 2000-60/243,592 20001026
US 2000-60/243,681 20001027
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US 2000-60/244,443 20001031
US 2000-60/245,029 20001101
US 2000-60/244,995 20001101
US 2000-60/245,293 20001102
US 2000-60/245,315 20001102
US 2000-60/245,316 20001102
US 2001-60/262,994 20010119
US 2001-60/269,056 20010215
US 2001-60/272,923 20010302
US 2001-60/276,565 20010315
US 2001-60/318,119 20010907

ICM C12N015-12
ICS C07K014-47 ; C07K016-18 ; G01N033-53 ; C12Q001-68 ;
G01N033-50 ;
A61K039-395 ; A61K031-7088 ; A61K038-17

L3 ANSWER 34 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002050271 PCTFULL ED 20020709 EW 200226
TIEN NOVEL HUMAN ION CHANNEL PROTEIN AND POLYNUCLEOTIDES
ENCODING THE SAME
TIFR NOUVELLE PROTEINE CANAL HUMAINE ET POLYNUCLEOTIDES CODANT POUR ELLE
IN FRIDDLE, Carl, Johan, 127 S. Goldenvine Circle, The Woodlands, TX 77382, US;
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LAF English

LA English

DT Patent

PI WO 2002050271 A2 20020627

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW

RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO): AM AZ BY KG KZ MD RU TJ TM

RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2001-US48050 A 20011210

PRAI US 2000-60/257,932 20001220

ICM C12N015-12

ICS C07K014-47

L3 ANSWER 35 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN

AN 2002046408 PCTFULL ED 20020624 EW 200224

TIEN **NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES**
ENCODING THEM AND METHODS OF USING THE SAME

TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET PROCEDES
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GANGOLLI, Esha, A., 383 Walden Green, Branford, CT 06405, US [IN, US]

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06511, US [US, US], for all designates States except US;
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 PATTURAJAN, Meera, 45 Harrison Avenue, Apartment 1C, Branford, CT 06405, US [IN, US], for US only;
 SHIMKETS, Richard, A., 191 Leete Street, West Haven, CT 06516, US [US, US], for US only;
 GUO, Xiaojia, 713 Robert Frost Drive, Branford, CT 06405, US [CN, US], for US only;
 CASMAN, Stacie, J., 17 Peck Street, North Haven, CT 06473, US [US, US], for US only;
 BURGESS, Catherine, E., 90 Carriage Hill Drive, Wethersfield, CT 06109, US [US, US], for US only;
 MALYANKAR, Uriel, M., 35 Averill Place, Branford, CT 06405, US [IN, US], for US only;
 TCHERNEV, Velizar, T., 45 Jefferson Road, #3-12, Branford, CT 06405, US [BG, US], for US only;
 VERNET, Corine, A., M., 1739 Foxon Road, North Branford, CT 06471, US [FR, US], for US only;
 SPYTEK, Kimberly, A., 28 Court Street, #1, New Haven, CT 06511, US [US, US], for US only;
 AGEE, Michele, 107 Knollwood Road, Wallingford, CT 06492, US [US, US], for US only;
 RASTELLI, Luca, 52 Pepperbush Lane, Guilford, CT 06437, US [IT, US], for US only;
 SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US], for US only;
 GROSSE, William, M., 15 Rice Terrace Road, Apartment C, Branford, CT 06405, US [US, US], for US only;
 ALSOBROOK, John, P., II, 60 Lake Drive, Madison, CT 06443, US [US, US], for US only;
 LEPLEY, Denise, M., 51 Church Street, Branford, CT 06405, US [US, US], for US only;
 GERLACH, Valerie, 18 Rock Pasture Road, Branford, CT 06405, US [US, US], for US only;
 EDINGER, Shlomit, 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511, US [US, US], for US only;
 MACDOUGALL, John, R., 117 Russell Street, Hamden, CT 06517, US [CA, US], for US only;
 PEYMAN, John, A., 336 West Rock Avenue, New Haven, CT 06515, US [US, US], for US only;
 GUNTHER, Erik, 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511, US [US, US], for US only;
 STONE, David, J., 223 Whitehorn Drive, Guilford, CT 06437, US [US, US], for US only;
 ELLERMAN, Karen, 87 Montoya Drive, Branford, CT 06405, US [US, US], for US only;
 GANGOLLI, Esha, A., 383 Walden Green, Branford, CT 06405, US [IN, US], for US only

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 LAF English
 LA English
 DT Patent
 PI WO 2002046408 A2 20020613
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
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 MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
 TT TZ UA UG US UZ VN YU ZA ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW

RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2001-US46057 A 20011024
 PRAI US 2000-60/242,882 20001024
 US 2000-60/242,765 20001024
 US 2000-60/242,768 20001024
 US 2000-60/242,789 20001024
 US 2000-60/242,767 20001024
 US 2000-60/243,502 20001026
 US 2000-60/243,622 20001026
 US 2000-60/243,593 20001026
 US 2000-60/243,591 20001026
 US 2000-60/243,950 20001027
 US 2001-60/273,047 20010302
 US 2001-60/300,206 20010622
 US 2001-60/316,509 20010831

ICM C12N015-12
 ICS C12N005-10 ; C07K014-47 ; C07K016-18 ; C12Q001-68 ;
 G01N033-577 ;
 G01N033-68 ; A61K038-12 ; A61K039-395

L3 ANSWER 36 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002031150 PCTFULL ED 20020515 EW 200216
 TIEN NOVEL HUMAN ION CHANNEL PROTEIN AND POLYNUCLEOTIDES
 ENCODING THE SAME
 TIFR NOUVELLE PROTEINE HUMAINE A CANAL IONIQUE ET POLYNUCLEOTIDES CODANT POUR
 CELLE-CI
 IN FRIDDLE, Carl, Johan, 127 S. Goldenvine Circle, The Woodlands, TX 77382,
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 77381, US
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 AG ISHIMOTO, Lance, K., Lexicon Genetics Incorporated, 4000 Research Forest
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 LAF English
 LA English
 DT Patent
 PI WO 2002031150 A2 20020418
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
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 TT TZ UA UG UZ VN YU ZA ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2001-US31900 A 20011010
 PRAI US 2000-60/239,623 20001010
 ICM C12N015-12
 ICS C07K014-705 ; C12Q001-68 ; C07K016-28 ; C12N015-62 ;
 G01N033-68 ;
 A61K038-00 ; A61K048-00 ; A61K031-7088

L3 ANSWER 37 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002014498 PCTFULL ED 20020711 EW 200208
 TIEN NOVEL HUMAN ION CHANNEL PROTEINS AND POLYNUCLEOTIDES
 ENCODING THE SAME
 TIFR NOUVELLES PROTEINES HUMAINES DE CANAL IONIQUE ET POLYNUCLEOTIDES CODANT
 POUR CELLES-CI

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AG ISHIMOTO, Lance, K., Lexicon Genetics Incorporated, 4000 Research Forest
Drive, The Woodlands, TX 77381, US
LAF English
LA English
DT Patent
PI WO 2002014498 A2 20020221
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG UZ VN YU ZA ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2001-US25650 A 20010815
PRAI US 2000-60/225,989 20000816
ICM C12N015-00

L3 ANSWER 38 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002010389 PCTFULL ED 20020814
TIEN NOVEL HUMAN ION CHANNEL PROTEINS AND POLYNUCLEOTIDES
ENCODING THE SAME
TIFR NOUVELLES PROTEINES DU CANAL IONIQUE HUMAIN ET POLYNUCLEOTIDES CODANT
CES DERNIERES

IN WALKER, D., Wade;
MATHUR, Brian;
TURNER, C., Alexander, Jr.;
FRIDDLE, Carl, Johan;
GERHARDT, Brenda

PA LEXICON GENETICS INCORPORATED
DT Patent
PI WO 2002010389 A2 20020207
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ
GW ML MR NE SN TD TG

AI WO 2001-US23827 A 20010730
PRAI US 2000-60/221,643 20000728
US 2000-60/222,503 20000802
ICM C12N015-12
ICS C07K014-705 ; C12Q001-68

L3 ANSWER 39 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002007751 PCTFULL ED 20020814
TIEN IDENTIFICATION AND ISOLATION OF NOVEL POLYPEPTIDES HAVING PDZ DOMAINS
AND METHODS OF USING SAME
TIFR IDENTIFICATION ET ISOLEMENT DE NOUVEAUX POLYPEPTIDES COMPORTANT DES
DOMAINES PDZ ET LEURS METHODES D'UTILISATION

IN HERRERO, Juan;
PIROZZI, Gregorio;
UVEGES, Albert

PA AXCELL BIOSCIENCES CORPORATION
DT Patent

PI WO 2002007751 A1 20020131
 DS W: AU CA JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
 NL PT SE TR
 AI WO 2001-US23269 A 20010724
 PRAI US 2000-60/221,215 20000725
 US 2000-09/723,810 20001128
 ICM A61K038-06
 ICS A61K038-16 ; C07K014-00 ; C12Q001-68 ; C12N005-10 ;
 G01N033-48 ;
 G01N033-53

 L3 ANSWER 40 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2001079294 PCTFULL ED 20020826
 TIEN **NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES**
 ENCODING THEM AND METHODS OF USING THE SAME
 TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET PROCEDES
 PERMETTANT DE LES UTILISER
 IN TAUPIER, Raymond, J., Jr.;
 VERNET, Corine, A., M.;
 FERNANDES, Elma;
 SHIMKETS, Richard, A.;
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 PADIGARU, Muralidhara;
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 ZERHUSEN, Bryan, D.;
 SPYTEK, Kimberly, A.;
 BURGESS, Catherine, E.;
 LIU, Xiaohong
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 VERNET, Corine, A., M.;
 FERNANDES, Elma;
 SHIMKETS, Richard, A.;
 MAJUMDER, Kumud;
 PADIGARU, Muralidhara;
 COLMAN, Steven, D.;
 ZERHUSEN, Bryan, D.;
 SPYTEK, Kimberly, A.;
 BURGESS, Catherine, E.;
 LIU, Xiaohong
 DT Patent
 PI WO 2001079294 A2 20011025
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW
 MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ
 UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
 GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW
 ML MR NE SN TD TG
 AI WO 2001-US12854 A 20010419
 PRAI US 2000-60/198,293 20000419
 US 2000-60/198,645 20000420
 US 2000-60/199,476 20000425
 US 2000-60/199,880 20000426
 US 2000-60/200,024 20000426
 US 2000-60/200,025 20000426
 US 2000-60/210,809 20000609
 US 2000-60/218,591 20000717
 US 2000-60/224,610 20000811
 US 2001-60/267,673 20010209
 US 2001-60/271,814 20010227
 ICM C07K014-705

L3 ANSWER 41 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2001075108 PCTFULL ED 20020822
 TIEN HUMAN ION CHANNEL PROTEIN AND POLYNUCLEOTIDES
 ENCODING THE SAME
 TIFR PROTEINE HUMAINE DU CANAL IONIQUE ET POLYNUCLEOTIDES LA CODANT
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 FRIEDRICH, Glenn;
 ZAMBROWICZ, Brian;
 SANDS, Arthur, T.
 PA LEXICON GENETICS INCORPORATED
 DT Patent
 PI WO 2001075108 A1 20011011
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
 DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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 UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM
 AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR
 IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR
 NE SN TD TG
 AI WO 2001-US10875 A 20010403
 PRAI US 2000-60/194,255 20000403
 ICM C12N015-12
 ICS C07K014-705

L3 ANSWER 42 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2001074896 PCTFULL ED 20020822
 TIEN HUMAN POLYNUCLEOTIDES, POLYPEPTIDES, AND ANTIBODIES
 TIFR POLYNUCLEOTIDES, POLYPEPTIDES ET ANTICORPS HUMAINS
 IN MOORE, Paul, A.;
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 SOPPET, Daniel, R.;
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 GENTZ, Reiner, L.;
 ENDRESS, Gregory, A.;
 LI, Yi;
 DILLON, Patrick, J.
 PA HUMAN GENOME SCIENCES, INC.;
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 NI, Jian;
 SOPPET, Daniel, R.;
 COLEMAN, Timothy, A.;
 GENTZ, Reiner, L.;
 ENDRESS, Gregory, A.;
 LI, Yi;
 DILLON, Patrick, J.
 DT Patent
 PI WO 2001074896 A1 20011011
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
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 MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ
 UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
 GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW
 ML MR NE SN TD TG
 AI WO 2001-US10542 A 20010402
 PRAI US 2000-60/194,118 20000403
 US 2000-60/236,384 20000929
 ICM C07K014-47
 ICS C12N005-10 ; C12N005-16 ; C12N015-12 ; C12N015-63 ;

C12N015-64

L3 ANSWER 43 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001062789 PCTFULL ED 20020822
TIEN HUMAN POLYNUCLEOTIDES, POLYPEPTIDES, AND ANTIBODIES
TIFR POLYNUCLEOTIDES, POLYPEPTIDES ET ANTICORPS HUMAINS
IN NI, Jian;
SHI, Yanggu;
EBNER, Reinhard;
CHOI, Gil, H.;
RUBEN, Steven, M.
PA HUMAN GENOME SCIENCES, INC.;
NI, Jian;
SHI, Yanggu;
EBNER, Reinhard;
CHOI, Gil, H.;
RUBEN, Steven, M.
DT Patent
PI WO 2001062789 A1 20010830
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB
GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML
MR NE SN TD TG
AI WO 2001-US5498 A 20010222
PRAI US 2000-60/184,664 20000224
US 2000-60/189,874 20000316
ICM C07K014-47
ICS C12N005-10 ; C12N005-16 ; C12N015-12 ; C12N015-63 ;
C12N015-64

L3 ANSWER 44 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001053343 PCTFULL ED 20020827
TIEN HUMAN POLYNUCLEOTIDES, POLYPEPTIDES, AND ANTIBODIES
TIFR POLYNUCLEOTIDES, POLYPEPTIDES ET ANTICORPS HUMAINS
IN RUBEN, Steven, M.;
SHI, Yanggu
PA HUMAN GENOME SCIENCES, INC.;
RUBEN, Steven, M.;
SHI, Yanggu
DT Patent
PI WO 2001053343 A1 20010726
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
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MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB
GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML
MR NE SN TD TG
AI WO 2001-US1436 A 20010117
PRAI US 2000-60/176,307 20000118
ICM C07K014-47
ICS C12N005-10 ; C12N015-12 ; C12N015-1 ; C12N015-19 ;
C12N015-63 ;
C12N015-64

L3 ANSWER 45 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001049728 PCTFULL ED 20020827
TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
PROTEINS

TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT CES PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko
 PA PROTEGENE INC.;
 SAGAMI CHEMICAL RESEARCH CENTER;
 KATO, Seishi;
 KIMURA, Tomoko
 DT Patent
 PI WO 2001049728 A2 20010712
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
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 US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM
 AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR
 IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR
 NE SN TD TG

AI WO 2000-JP9359 A 20001228
 PRAI JP 2000-2000-585 20000106
 JP 2000-2000-588 20000106
 JP 2000-2000-2299 20000111
 JP 2000-2000-26862 20000203
 JP 2000-2000-58367 20000303

ICM C12N015-12
 ICS C07K014-47 ; C07K016-18

L3 ANSWER 46 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2001012660 PCTFULL ED 20020828
 TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
 PROTEINS

TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT POUR CES
 PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko
 DT Patent

PI WO 2001012660 A2 20010222
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
 DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG
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 AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR
 IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE
 SN TD TG

AI WO 2000-JP5356 A 20000810
 PRAI JP 1999-11/230344 19990817
 JP 1999-11/252551 19990907
 JP 1999-11/281132 19991001
 JP 1999-11/301624 19991022
 JP 1999-11/313877 19991104

ICM C07K014-00

L3 ANSWER 47 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2001002563 PCTFULL ED 20020828
 TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES AYANT DES DOMAINES HYDROPHOBES ET ADN CODANT POUR CES
 PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko

PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko

DT Patent

PI WO 2001002563 A2 20010111

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO
NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US
UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ
BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

AI WO 2000-JP3943 A 20000616

PRAI JP 1999-11/188835 19990702

ICM C12N015-12

ICS C07K014-705 ; C07K014-47 ; C07K016-18 ; C07K016-28

L3 ANSWER 48 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN

AN 2001000824 PCTFULL ED 20020828

TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
PROTEINS

TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADNs LES CODANT

IN KATO, Seishi;
KIMURA, Tomoko

PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko

DT Patent

PI WO 2001000824 A2 20010104

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO
NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US
UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ
BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

AI WO 2000-JP3944 A 20000616

PRAI JP 1999-11/178065 19990624

ICM C12N015-12

ICS C07K014-705 ; C07K014-47 ; C07K016-18 ; C07K016-28

L3 ANSWER 49 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN

AN 2000056751 PCTFULL ED 20020515

TIEN 50 HUMAN SECRETED PROTEINS

TIFR CINQUANTE PROTEINES HUMAINES SECRETEES

IN ROSEN, Craig, A.;
RUBEN, Steven, M.;
KOMATSOULIS, George

PA HUMAN GENOME SCIENCES, INC.;
ROSEN, Craig, A.;
RUBEN, Steven, M.;
KOMATSOULIS, George

LA English

DT Patent

PI WO 2000056751 A1 20000928

DS W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS
MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH

		CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
		CI CM GA GN GW ML MR NE SN TD TG
AI	WO 2000-US6013	A 20000309
PRAI	US 1999-60/125,360	19990319
	US 1999-60/138,626	19990611
	US 1999-60/168,662	19991203
ICM	C07H021-04	
ICS	C07K014-00 ; C07K016-00 ; C12N015-00 ; C12N015-63 ;	
	C12N015-85 ;	
	C12N015-86 ; C12Q001-68 ; G01N033-53	
L3	ANSWER 50 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN	
AN	2000029448 PCTFULL ED 20020515	
TIEN	HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAS ENCODING THESE PROTEINS	
TIFR	PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT POUR CES PROTEINES	
IN	KATO, Seishi;	
	KIMURA, Tomoko	
PA	SAGAMI CHEMICAL RESEARCH CENTER;	
	PROTEGENE INC.;	
	KATO, Seishi;	
	KIMURA, Tomoko	
LA	English	
DT	Patent	
PI	WO 2000029448	A2 20000525
DS	W:	AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
AI	WO 1999-JP6412	A 19991117
PRAI	JP 1998-10/326255	19981117
	JP 1998-10/364315	19981222
	JP 1999-11/69811	19990316
	JP 1999-11/119299	19990427
	JP 1999-11/138169	19990519
ICM	C07R014-705	
ICS	C12N015-12	
L3	ANSWER 51 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN	
AN	2000005367 PCTFULL ED 20020515	
TIEN	HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAS ENCODING THESE PROTEINS	
TIFR	PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT POUR CES PROTEINES	
IN	KATO, Seishi;	
	KIMURA, Tomoko	
PA	SAGAMI CHEMICAL RESEARCH CENTER;	
	PROTEGENE INC.;	
	KATO, Seishi;	
	KIMURA, Tomoko	
LA	English	
DT	Patent	
PI	WO 2000005367	A2 20000203
DS	W:	AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

AI WO 1999-JP3929 A 19990722
 PRAI JP 1998-10/208820 19980724
 JP 1998-10/224105 19980807
 JP 1998-10/238116 19980825
 JP 1998-10/254736 19980909
 JP 1998-10/275505 19980929
 ICM C12N015-12
 ICS C07K014-705 ; C12N005-10

L3 ANSWER 52 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2000000506 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES POSSEDANT DES DOMAINES HYDROPHOBES ET ADN CODANT CES
 PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko
 LA English
 DT Patent
 PI WO 2000000506 A2 20000106
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE

AI WO 1999-JP3242 A 19990618
 PRAI JP 1998-10/180008 19980626
 ICM C12N015-12
 ICS C07K014-705 ; C12N005-10

L3 ANSWER 53 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1999055862 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES COMPORTANT DES DOMAINES TRANSMEMBRANAIRES ET
 SEQUENCES D'ADN CODANT CES PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko
 LA English
 DT Patent
 PI WO 9955862 A2 19991104
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE

AI WO 1999-JP2226 A 19990427
 PRAI JP 1998-10/119395 19980428
 ICM C12N015-12
 ICS C07K014-47 ; C12N005-10

L3 ANSWER 54 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1999043802 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES POSSEDANT DES DOMAINES TRANSMEMBRANAIRES ET ADN
 CODANT CES PROTEINES
 IN KATO, Seishi;
 SEKINE, Shingo;
 KIMURA, Tomoko;
 NAKAMURA, Nobuko
 PA SAGAMI CHEMICAL RESEARCH CENTER;

PROTEGENE INC.;
 KATO, Seishi;
 SEKINE, Shingo;
 KIMURA, Tomoko;
 NAKAMURA, Nobuko
 LA English
 DT Patent
 PI WO 9943802 A2 19990902
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE
 AI WO 1999-JP875 A 19990225
 PRAI JP 1998-10/46607 19980227
 ICM C12N015-12
 ICS C12N005-10 ; C07K014-705

 L3 ANSWER 55 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1999027094 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES PRESENTANT DES DOMAINES MEMBRANAIRES ET ADN CODANT
 CES PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko;
 SEKINE, Shingo
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko;
 SEKINE, Shingo
 LA English
 DT Patent
 PI WO 9927094 A2 19990603
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE
 AI WO 1998-JP5238 A 19981120
 PRAI JP 1997-9/323129 19971125
 ICM C12N015-12
 ICS C07K014-47 ; C12N015-85 ; C12N005-10

 L3 ANSWER 56 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1999018203 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND cDNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES COMPORTANT DES DOMAINES TRANSMEMBRANAIRES ET ADN
 CODANT CES PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko;
 SEKINE, Shingo;
 KOBAYASHI, Midori
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko;
 SEKINE, Shingo;
 KOBAYASHI, Midori
 LA English
 DT Patent
 PI WO 9918203 A2 19990415
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE
 AI WO 1998-JP4475 A 19981005
 PRAI JP 1997-9/276271 19971008
 ICM C12N015-12
 ICS C07K014-47 ; C12N015-79 ; C12N005-10

L3 ANSWER 57 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1999018202 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND cDNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES COMPORTANT DES DOMAINES TRANSMEMBRANAIRES ET ADN
 CODANT CES PROTEINES
 IN KATO, Seishi;
 SEKINE, Shingo
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 SEKINE, Shingo
 LA English
 DT Patent
 PI WO 9918202 A2 19990415
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE
 AI WO 1998-JP4474 A 19981005
 PRAI JP 1997-9/276269 19971008
 ICM C12N015-12
 ICS C07K014-705 ; C12N005-10

L3 ANSWER 58 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1999018199 PCTFULL ED 20020515
 TIEN cDNAs CODING FOR HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS
 TIFR ADNc CODANT POUR DES PROTEINES HUMAINES POSSEDANT DES DOMAINES
 TRANSMEMBRANAIRES
 IN KATO, Seishi;
 SEKINE, Shingo
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 SEKINE, Shingo
 LA English
 DT Patent
 PI WO 9918199 A2 19990415
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE
 AI WO 1998-JP4447 A 19981002
 PRAI JP 1997-9/276270 19971008
 ICM C12N015-12
 ICS C07K014-705 ; C12N005-10

L3 ANSWER 59 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1998055508 PCTFULL ED 20020514
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES AYANT DES DOMAINES TRANSMEMBRANAIRES ET ADN CODANT
 CES PROTEINES
 IN KATO, Seishi;
 SEKINE, Shingo;
 YAMAGUCHI, Tomoko
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 SEKINE, Shingo;
 YAMAGUCHI, Tomoko
 LA English
 DT Patent
 PI WO 9855508 A2 19981210
 DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
 MC NL PT SE
 AI WO 1998-JP2445 A 19980603

PRAI JP 1997-9/144948 19970603
 ICM C12N015-12
 ICS C07K014-705 ; A61K038-17 ; C12N005-10 ; C12Q001-37 ;
 C12N009-72 ;
 C12N015-85

 L3 ANSWER 60 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 1998021328 PCTFULL ED 20020514
 TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAS ENCODING THESE
 PROTEINS
 TIFR PROTEINES HUMAINES POSSEDANT DES DOMAINES DE TRANSMEMBRANE ET ADN CODANT
 CES PROTEINES
 IN KATO, Seishi;
 SEKINE, Shingo;
 YAMAGUCHI, Tomoko;
 KOBAYASHI, Midori
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 SEKINE, Shingo;
 YAMAGUCHI, Tomoko;
 KOBAYASHI, Midori
 LA English
 DT Patent
 PI WO 9821328 A2 19980522
 DS W: AU CA JP MX US AT BE CH DE DK ES FI FR GB GR IE IT LU MC
 NL PT SE
 AI WO 1997-JP4056 A 19971107
 PRAI JP 1996-8/301429 19961113
 ICM C12N015-12
 ICS C07K014:705 ; C12N005:10 ; C12N015:57 ; C12N009:48 ;
 C12N009:14 ;
 C12N015:55